JVC

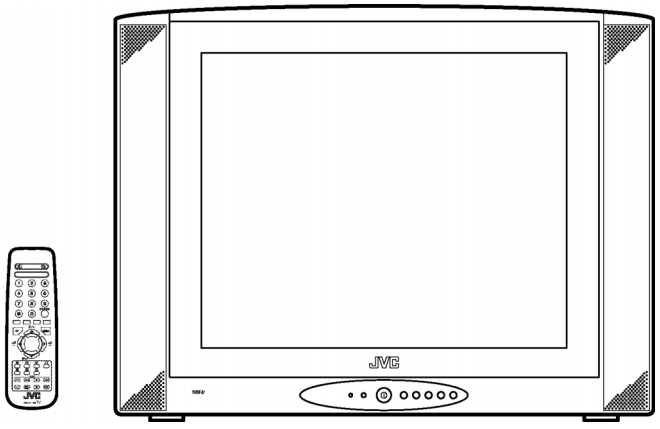
Preliminary

SERVICE MANUAL

COLOUR TELEVISION

AV-28RH4BU, AV-28RH4SU

Supplementary



The following item for the AV-28RH4BU, AV-28RH4SU models were changed partly from AV-28KH1BUF model. Therefore, this Service Manual describes only the SPECIFICATIONS, SPECIFIC SERVICE INSTRUCTIONS & PARTS LIST.
For details other than those described in this manual, please refer to the AV-28KH1BUF model SERVICE MANUAL (No.52139, 2003/9).

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No.YA077
2004/10

SPECIFICATIONS

Item		Content AV-28RH4BU / AV-28RH4SU
Dimensions (W × H × D)		76.5 cm x 58.5 cm x 48.6 cm
Mass		33.8kg
TV RF System		B/G, D/K, L/L'
Colour System	**TV Mode**	PAL / SECAM
	Video Mode	PAL / SECAM / NTSC 3.58 / NTSC 4.43
Sound System		A2(Germany system), NICAM(B/G, D/K, L/L')
Teletext System		Fastext / Toptext / WST
Receiving Frequency		
	VHF(VL)	46.25MHz ～ 168.25MHz
	(VH)	175.25MHz ～ 463.25MHz
	UHF	471.25MHz ～ 863.25MHz
	CATV	S01-S20 / S21-S41
Intermediate Frequency		
	VIF Carrier	38.9MHz (B/G , D/K , L) / 33.9MHz(L')
	SIF Carrier	33.4MHz (5.5MHz:B/G) / 32.9MHz (6.0MHz:D/K) 32.4MHz (6.5MHz:L) / 40.4MHz (6.5MHz:L')
Colour Sub Carrier Freq.		
	PAL	4.43MHz
	SECAM	4.40625MHz / 4.43MHz
	NTSC	3.58MHz / 4.43MHz
Power Input		AC 175V～265V , 50Hz
Power Consumption		150W (Max), 3W (Standby)
Aerial Input Term		75Ω unbalanced, Coaxial
Picture Tube Size		Visible size : 66cm(Measured diagonally)
High Voltage		30kV (at zero beam current)
Speaker		5.7cm × 12.6cm, Oval type × 2
Audio Output		Tweeter : 10W+10W (closed), 8Ω/10W+10W
Input	**Video**	1V(p-p), 75Ω
	S/Video	Mini DIN 4pin Y : 1V(p-p) Positive, 75Ω / C : 0.286V(p-p), 75Ω
	Audio(L/R)	500mV(rms),(-4dBs), High Impedance
Output	**Video**	1V(p-p) 75Ω
	Audio(L/R)	500mV(rms), Low Impedance
Input Terminal	**Rear Side**	AV1 (Video/Audio/RGB) AV2 (Video/Audio/S-VHS)
	Front Side	AV3(FRONT AV) (Video/Audio)
Output Terminal	**Front Side**	Headphone jack (Stereo mini jack 3.5mm)
	Rear Side	AV1 (Video/Audio) AV2 (Video/Audio)
Remote Control Unit		VE-30017763 (RM-C1100), (AA/R06 dry battery × 2)

Design & specifications are subject to change without notice.

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Unplug the power cord.
2. Remove the **10** screws marked [**A**].
3. Remove the **4** screws marked [**B**].
4. Withdraw the REAR COVER toward you.

REMOVING THE BACK DOOR

- Removing the rear cover.

1. Remove the **2** screws marked [**C**].
2. Withdraw the BACK DOOR toward you.

REMOVING THE MAIN PWB

- Removing the rear cover.
- Removing the back door.

1. Remove the **4** screw marked [**D**].
2. Slightly raise the both sides of the MAIN PWB by hand and withdraw MAIN PWB back ward.
   [CAUTION]
   If necessary, take off the wire clamp, connectors etc.
   Be careful enough when developing a MAIN PWB.

REMOVING THE FEATURE BOX PWB

- Removing the rear cover.

1. Disconnect the connector PL409 and PL410 on the MAIN PWB.
2. Raise up the both sides and disconnect the FEATURE BOX PWB.

REMOVING THE WOOFER & TWEETER

- Removing the rear cover.

1. Remove the **4** screws marked [**E**], and remove the WOOFER.
2. Remove the **4** screws marked [**F**], and remove the TWEETER.
3. Remove an opposite side similarly.

REMOVING SIDE CONTROL PWB

- Removing the rear cover.

1. Remove the **2** screws marked [**G**], and remove the SIDE CONTROL PWB.

REMOVING SWITCH PWB

- Removing the rear cover.

1. Remove the **3** screws marked [**H**], and remove the SIDE SWITCH PWB.

REMOVING THE POWER SWITCH PWB

- Removing the rear cover.

1. Remove the **2** screws marked [**I**], and remove the POWER SWITCH PWB.

REMOVING THE LED PWB

- Removing the rear cover.

1. Remove the **2** screws marked [**J**], and remove the LED PWB.

REMOVING THE BASE

- Removing the rear cover.

1. Remove the **2** screws marked [**K**], and remove the BASE.

CHECKING THE PW BOARD

To check the back side of the PW Board.

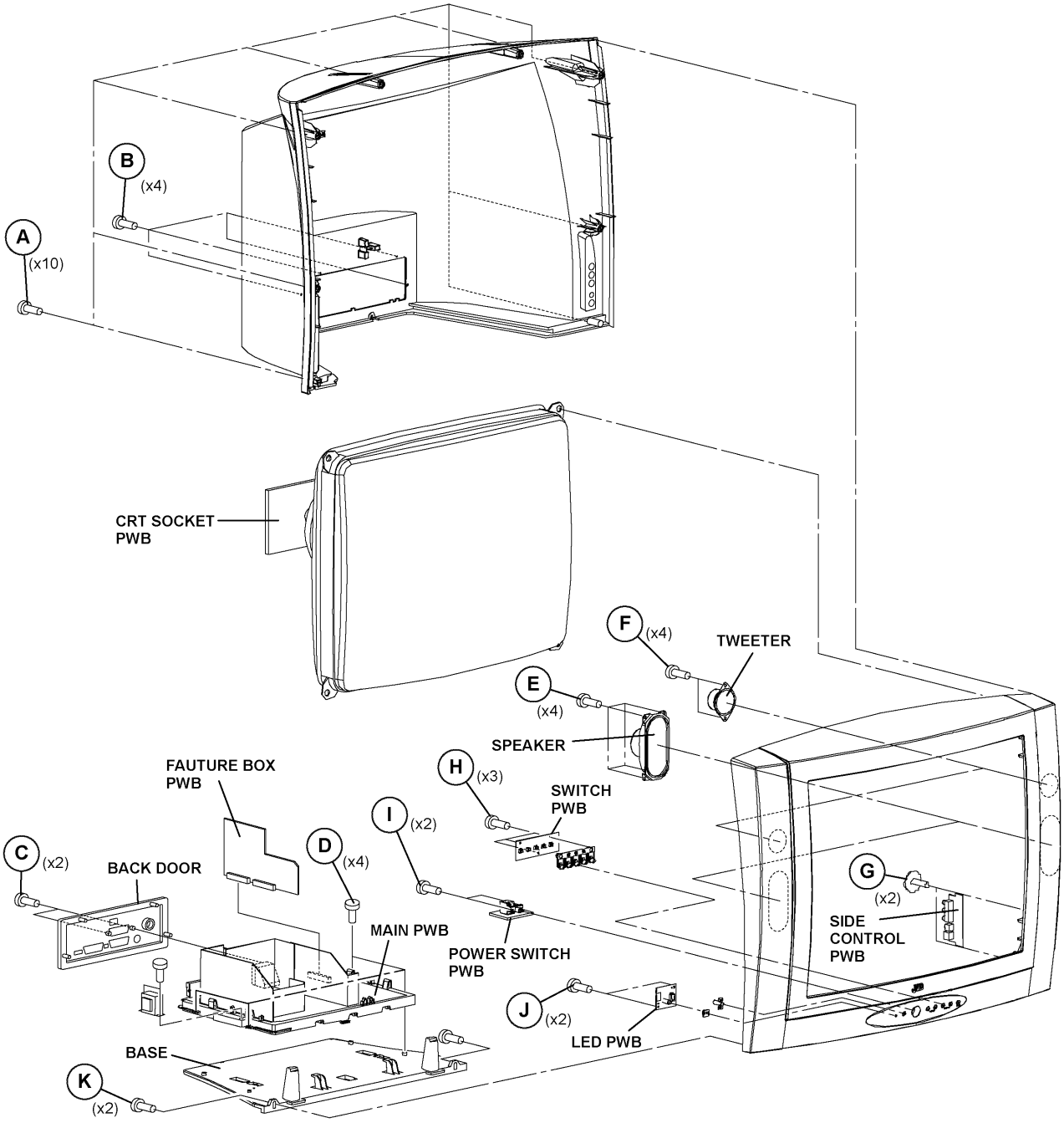
1) Pull out the PW Board. (Refer to REMOVING THE MAIN PWB).
2) Erect the PW Board vertically so that you can easily check the back side of the PW Board.

[CAUTION]

- When erecting the PW Board, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together.
   Should it be inadvertently removed, be sure to tie the wires with a new cable tie.


A
(x10)
B
(x4)
CRT SOCKET
PWB
F
(x4)
TWEETER
E
(x4)
SPEAKER
H
(x3)
SWITCH
PWB
FAUTURE BOX
PWB
I
(x2)
C
(x2)
BACK DOOR
D
(x4)
G
(x2)
SIDE
CONTROL
PWB
MAIN PWB
POWER SWITCH
PWB
J
(x2)
LED PWB
BASE
K
(x2)

PARTS LIST

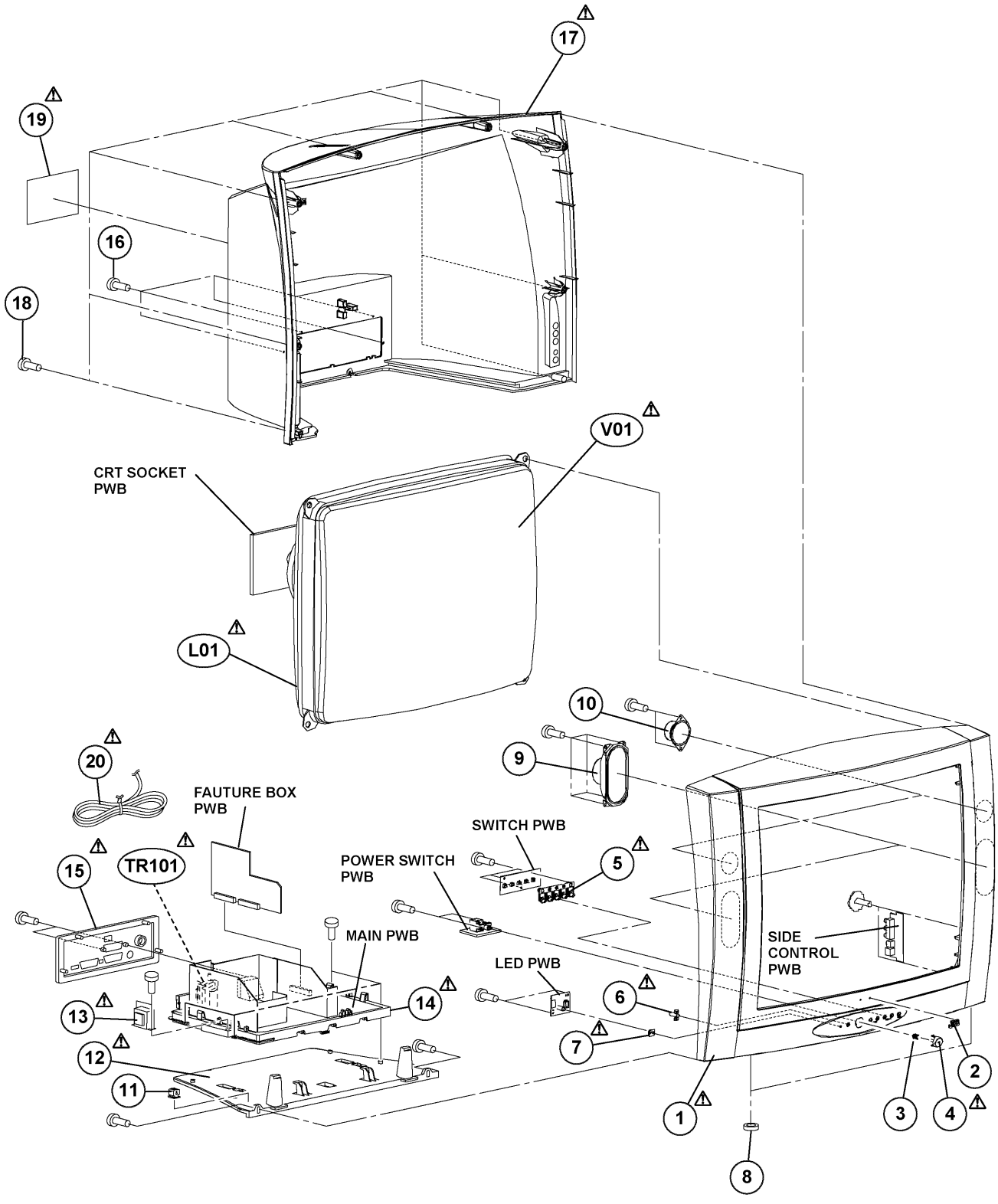
USING P.W. BOARD & REMOTE CONTROL UNIT

Model / PWB ASS'Y	AV-28RH4BU AV-28RH4SU
MAIN PWB	VE-20160399
FEATURE BOX PWB	VE-20144446
CRT SOCKET PWB	VE-20147459
LED PWB	VE-20154915
SIDE CONTROL PWB	VE-20161117
SWITCH PWB	VE-20167596
POWER SWITCH PWB	VE-20122229
REMOTE CONTROL UNIT	VE-30017763 (RM-C1100)

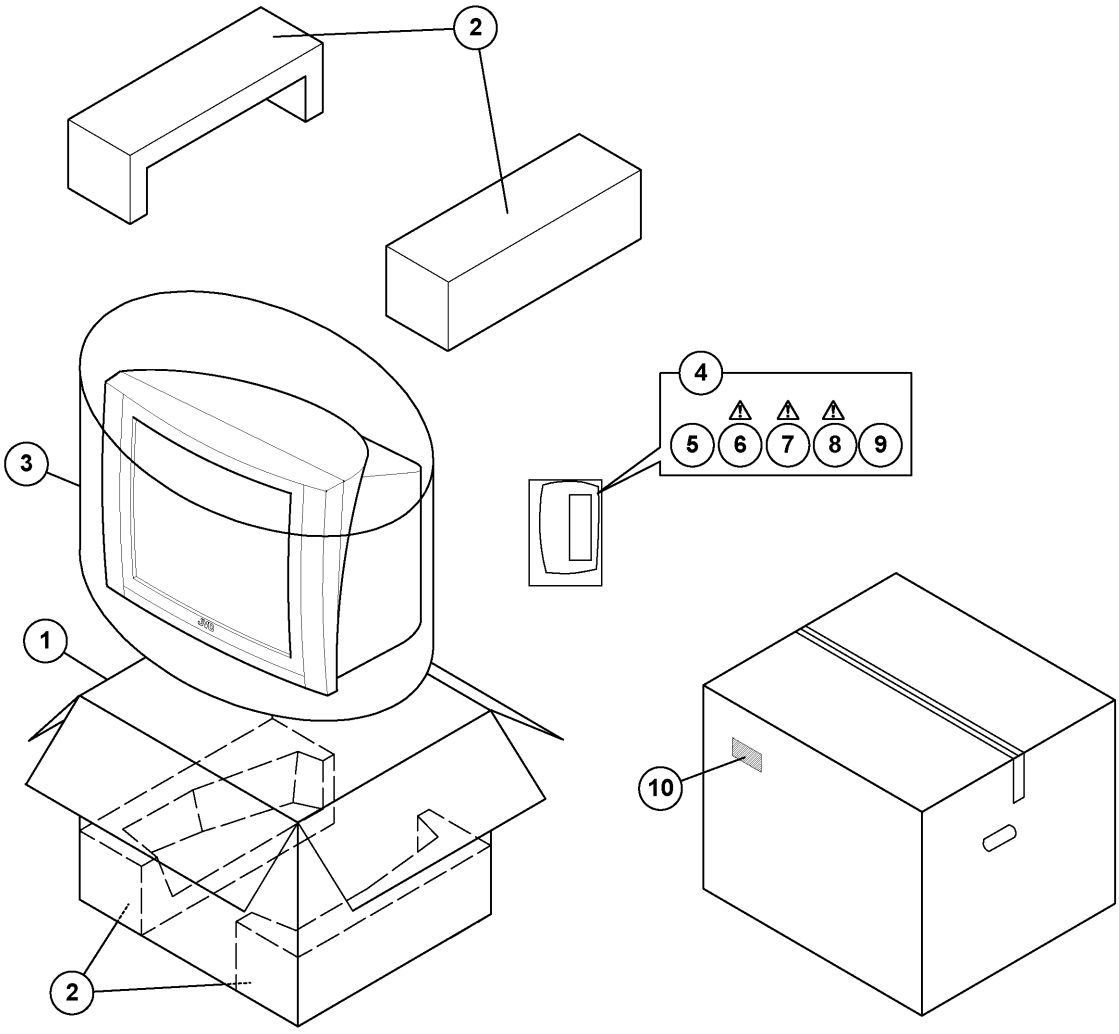
EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	VE-30002754	PICTURE TUBE(ITC)	Inc.DY,PC MAGNET	
⚠	L01	VE-30029994	DEG.COIL		
⚠	TR101	VE-30017521	FBT	within MAIN PWB	
⚠	1	VE-20160977	FRONT CABINET		AV-28RH4BU
⚠	1	VE-20161093	FRONT CABINET		AV-28RH4SU
	2	VE-40013592	LOGO JVC		AV-28RH4BU
	2	VE-40013593	LOGO JVC		AV-28RH4SU
	3	VE-35000013	SPRING		
⚠	4	VE-20144094	BUTTON ON/OFF		AV-28RH4BU
⚠	4	VE-20160953	BUTTON ON/OFF		AV-28RH4SU
⚠	5	VE-20144095	BUTTON FUNCTION		AV-28RH4BU
⚠	5	VE-20160956	BUTTON FUNCTION		AV-28RH4SU
⚠	6	VE-20128755	LENS PRE-AMP		
⚠	7	VE-20056446	LED LENS		
	8	VE-40000082	FOOT RUBBER	(X2)	
	9	VE-30024903	SPEAKER	(X2) 8Ω15W 57*126	
	10	VE-30024912	TWEETER	(X2) 8Ω 8W CLOSED	
	11	VE-20004520	CABLE HOLDER		
⚠	12	VE-20141523	BASE		
⚠	13	VE-30018270	PFC TRANSF.	1.7A 43MH 170W	
⚠	14	VE-20090585	CHASSIS FRAME		
⚠	15	VE-20168677	BACK DOOR		AV-28RH4BU
⚠	15	VE-20120043	BACK DOOR		AV-28RH4SU
	16	VE-35008081	SCREW (3X9.5)	(X4)	
⚠	17	VE-20144073	REAR COVER		AV-28RH4BU
⚠	17	VE-20160941	REAR COVER		AV-28RH4SU
	18	VE-35004572	SCREW (4X20)	(X10)	AV-28RH4BU
	18	VE-35010702	SCREW (4X20)	(X10)	AV-28RH4SU
⚠	19	VE-20160975	LABEL		AV-28RH4BU
⚠	19	VE-20160981	LABEL		AV-28RH4SU
⚠	20	VE-30016513	POWER CORD	2.2MT	

EXPLODED VIEW



PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	VE-50051238	CARTON BOX		AV-28RH4BU
	1	VE-50051256	CARTON BOX		AV-28RH4SU
	2	VE-20155898	CUSHION ASS'Y	4pcs in 1set	
	3	VE-50042308	POLY BAG(1200*1050)		
	4	VE-70000587	POLY BAG		
	5	VE-30017763	REMOTE CONTROL UNIT(RM-C1100)		
⚠	6	VE-50051235	INST BOOK(EN/GE/FR/IT/SP/DU/POR)		AV-28RH4BU
⚠	6	VE-50051243	INST BOOK(EN/GE/FR/IT/SP/DU/POR)		AV-28RH4SU
⚠	7	VE-50051236	INST BOOK(SW/NO/DA/FIN)		AV-28RH4BU
⚠	7	VE-50051254	INST BOOK(SW/NO/DA/FIN)		AV-28RH4SU
⚠	8	VE-50051237	INST BOOK(CZ/POL/HUN/BU/RU)		AV-28RH4BU
⚠	8	VE-50051255	INST BOOK(CZ/POL/HUN/BU/RU)		AV-28RH4SU
	9	BT-54013-2TK	WARRANTY CARD		
	10	VE-20160975	LABEL		AV-28RH4BU
	10	VE-20160981	LABEL		AV-28RH4SU

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（No. YA077）

Printed in Japan
WPC

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SERVICE MANUAL

COLOUR TELEVISION

AV-28RH4BU, AV-28RH4SU

Supplementary

The following items for the AV-28RH4BU and AV-28RH4SU were changed partly.
Therefore, this service manual describes only the items which differ from those of the AV-28RH4BU and AV-28RH4SU service manual.
For details other than those described in this manual, please refer to the AV-28RH4BU and AV-28RH4SU service manual (No.YA077, 2005/2).

DIFFERENCE LIST

PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y

⚠	Ref. No.	Part No.		PART NAME	DESCRIPTION
		BEFORE	AFTER		
⚠	TU200	VE-30009637	VE-30033888	TUNER	Non compatible

FEAUTER BOX P.W. BOARD ASS'Y

NOTE: Be sure to change IC752, when the TUNER is changed.

⚠	Ref. No.	Part No.		PART NAME	DESCRIPTION
		BEFORE	AFTER		
⚠	IC752	VE-30013571	VE-20190399	IC	Compatible

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No.YA077B
2005/3

SECTION 1
PRECAUTION

Please refer to "AV-28RH4BU and AV-28RH4SU (No.YA077)" about this section.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

Please refer to "AV-28RH4BU and AV-28RH4SU (No.YA077)" about this section.

SECTION 3
DISASSEMBLY

Please refer to "AV-28RH4BU and AV-28RH4SU (No.YA077)" about this section.

SECTION 4
ADJUSTMENT

4.1 SETTING VALUES OF VIDEO ITEMS

When a previous TUNER (VE-30009637) is replaced by a new TUNER (VE-30033888), it should be adjusted to the setting values in the table below. If the TUNER of the model with the new TUNER (VE-30033888) is replaced, there is no need for adjustment.

4.1.1 SETTING VALUE OF VIDEO ITEM

Make sure not to change the values that are not in the table below. If those values are changed, the unit will not operate normally.

Item	Setting value	
	BEFORE	AFTER
T_T	THO	SAM

4.1.2 HOW TO ENTER THE SERVICE MODE

(1) Press the INFORMATION key and MUTING key simultaneously, and the SERVICE MENU 1 screen will be displayed. (Fig.1)

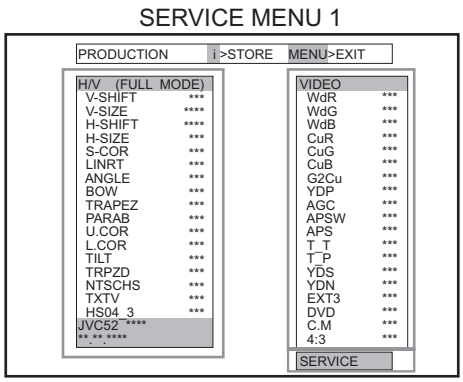


Fig.1

4.1.3 HOW TO CHANGE THE SETTING VALUE

(1) While the SERVICE MENU screen is displayed, press the GREEN key to select the "VIDEO".
(2) Press the FUNCTION [▲]/[▼] key to select the "T_T".
(3) Press the FUNCTION [◀]/[▶] key to set the value to "SAM".
(4) Press the [INFORMATION] key to memorize the set value.

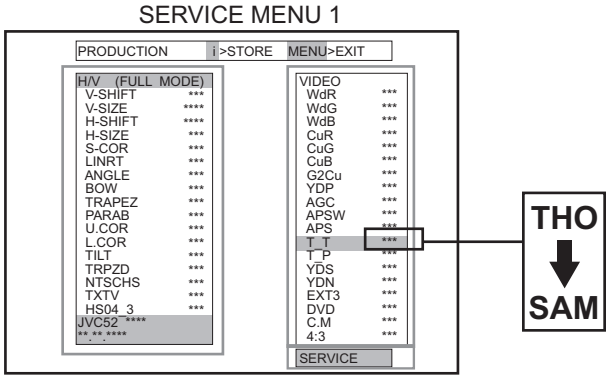
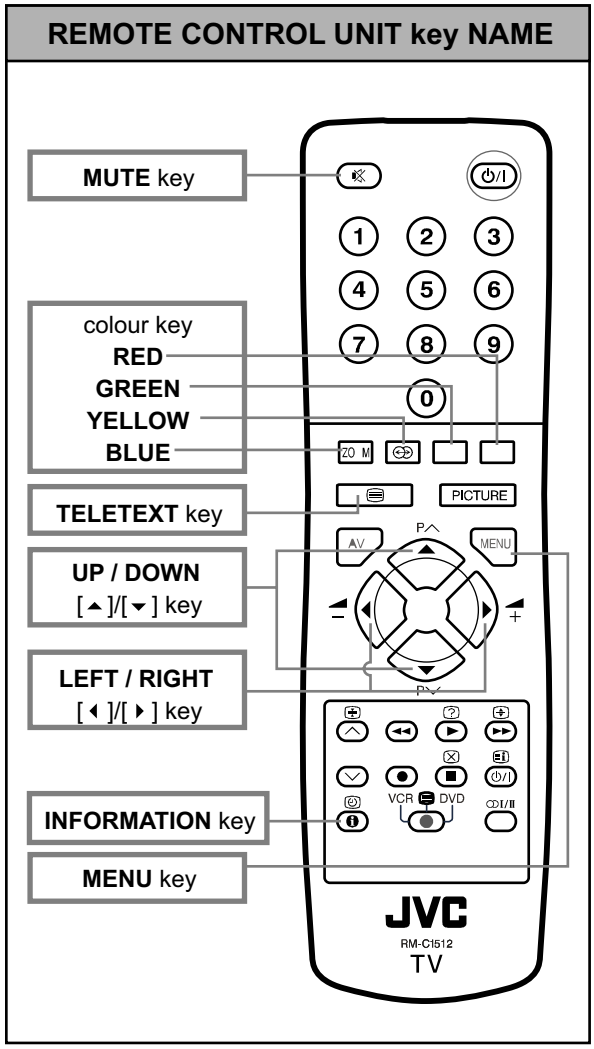


Fig.2



SECTION 5
TROUBLESHOOTING

Please refer to "AV-28RH4BU and AV-28RH4SU (No.YA077)" about this section.

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(No.YA077B)

Printed in Japan
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AV-28RH4BU
AV-28RH4SU

ENGLISH
FRANÇAIS
DEUTSCH
ITALIANO
CASTELLANO
NEDERLANDS
PORTUGUÊS

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COLOUR TELEVISION — INSTRUCTIONS

TELEVISEUR COULEUR — MANUEL D'INSTRUCTIONS
FARBFERNSEHGERÄT — BEDIENUNGSANLEITUNG
TELEVISORE A COLORI — ISTRUZIONI
TELEVISOR A COLOR — MANUAL DE INSTRUCCIONES
KLEURENTELEVISIE — GEBRUIKSAANWIJZING
TELEVISOR A CORES — INSTRUÇÕES

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Safety Precautions

1. Power Source

The receiver should be operated only from a **220-240V AC, 50 Hz.** outlet. Ensure you select the correct voltage setting for your convenience.

2. Power Cord

The power supply cord should be placed so that they are not likely to be walked on or pinched by items placed upon them or against them. Pay particular attention to cord where they enter the plug, power outlet, and the point where they exit from the receiver.

3. Moisture and Water

Do not use this equipment in a humid and damp place (avoid the bathroom, the sink in the kitchen, and near the washing machine). Do not expose this equipment to rain or water and do not place objects filled with liquids on it as this may be dangerous.

4. Cleaning

Before cleaning, unplug the receiver from the main supply outlet. Do not use liquid or aerosol cleaners. Use with soft and dry cloth.

5. Ventilation

The slots and openings on the receiver are intended for ventilation and to ensure reliable operation. To prevent overheating, these openings must not be blocked or covered in anyway.

6. Lightning

In case of storm and lightning or when going on holiday, disconnect the power cord from the wall outlet.

7. Replacement Part

When replacement parts are required, be sure the service technician has used replacement parts which are specified by the manufacturer or have the same specifications as the original one. Unauthorized substitutions may result in fire, electrical shock, or other hazards.

8. Servicing

Please refer all servicing to qualified personnel. Do not remove cover as this may result in electric shock.

9. Flame sources

Do not place naked flame sources on the apparatus.

10. Stand-By

Do not leave your TV stand-by or operating condition when you leave your house.

Warning!

Any intervention contrary to regulations, in particular, any modification of high voltage or a replacement of the picture tube may lead to an increased concentration of x-rays. Any television modified in this way no longer complies with license and must not be operated.

Instructions for waste disposal:

Packaging and packaging aids are recyclable and should principally be recycled. Packaging materials, such as foil bag, must be kept away from children.

Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area.

Remote Control Buttons

① ⏻/I = Stand By / Power

② **0 - 9** = Direct Program

③ **STANDARD** Button (Picture Mode Change)

④ Colour Buttons

RED: Zoom (Picture Size) Change

GREEN: Hyper Sound

YELLOW: Factory Settings in Picture Menu

⑤ **MENU** = Menu Button

⑥ ▲ (**P**∧) = Cursor Up / Programme Up

⑦ ▶ (+) = Cursor Right / Volume +

⑧ Teletext Control Buttons

⑨ VCR Control Buttons

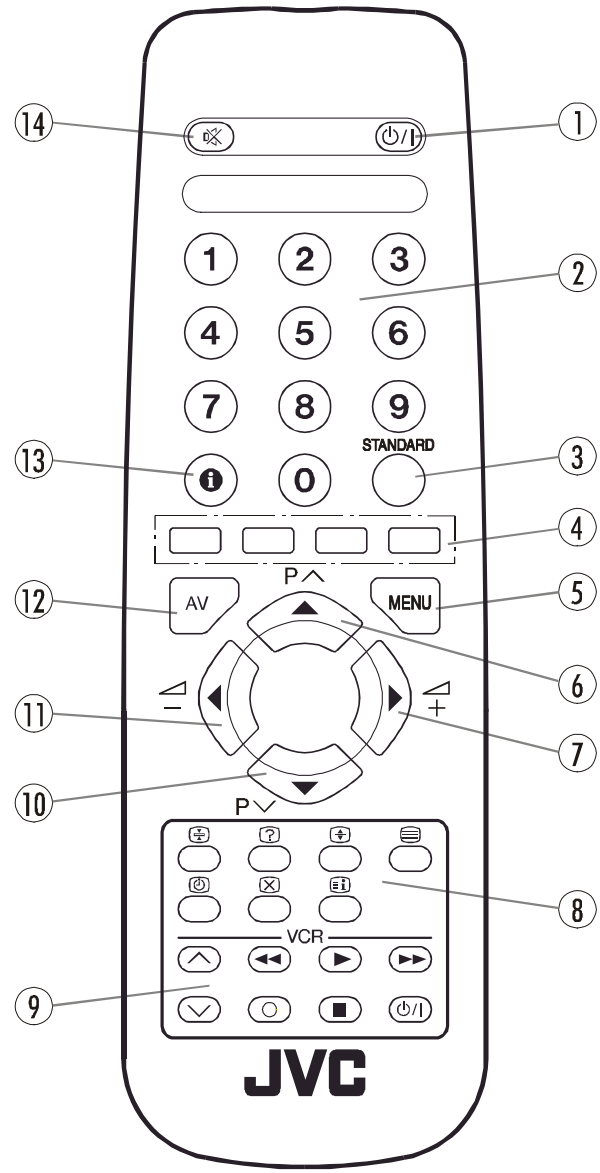
⑩ ▼ (**P**∨) = Cursor Down / Programme Down

⑪ ◀ (−) = Cursor Left / Volume -

⑫ **AV** = AV Button

⑬ ℹ = Information Button / T-V Link in Program Menu

⑭ = Mute



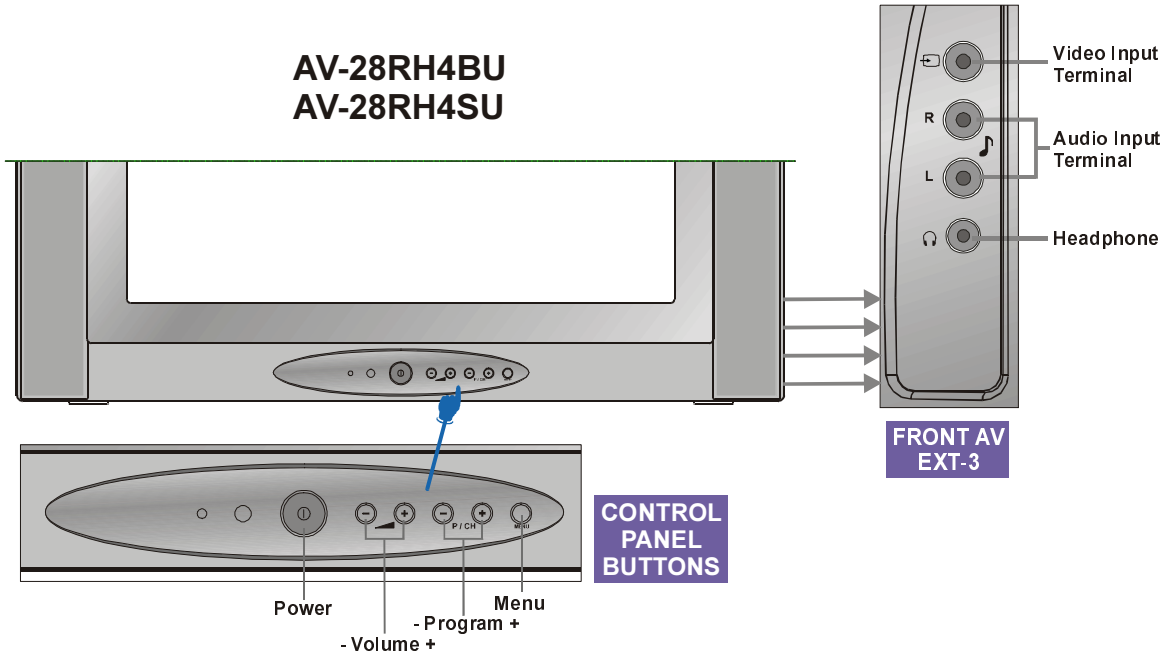
CAUTION

RISK OF ELECTRIC SHOCK

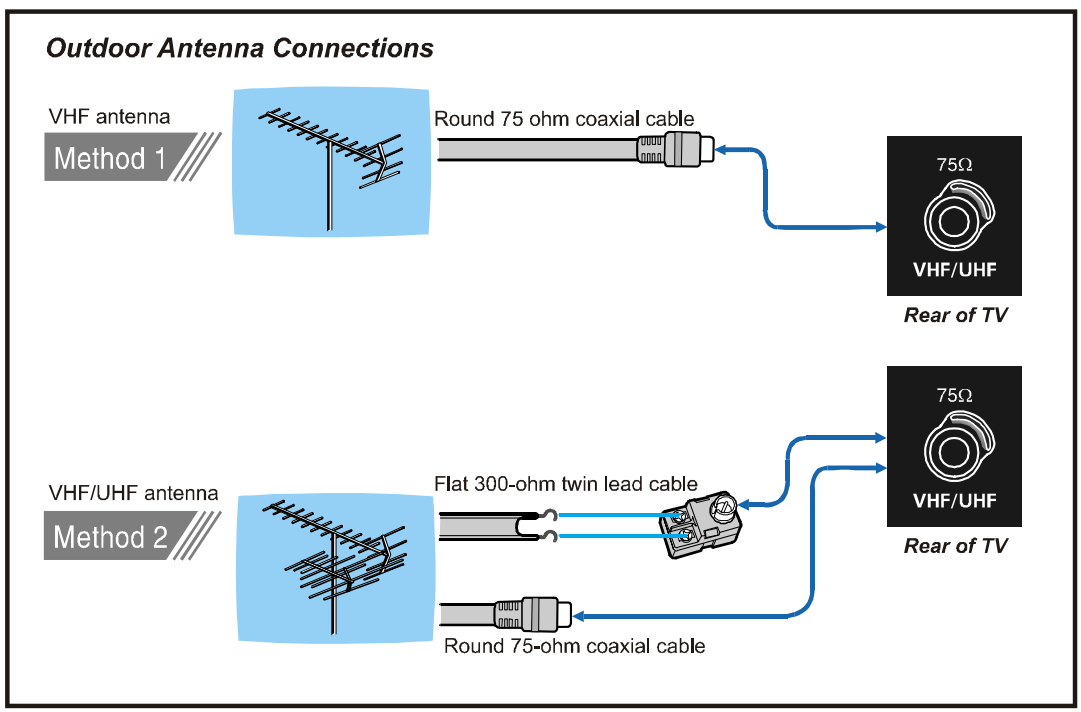
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Control Panel Buttons



Antenna Connections



Preparation

Place TV on a solid surface.

For ventilation, leave a space of at least 10 cm free all around the set. To prevent any fault and unsafe situations, please do not place any objects on top of the set.

“Use this apparatus in tropical and moderate climates.”

Features

- It is a remote controlled colour television.
- 100 programmes from VHF, UHF bands or cable channels can be preset.
- It can tune cable channels.
- Controlling the TV is very easy by its menu driven system.
- It has two Euroconnector sockets for external devices (such as video recorder, video games, audio set, etc.)
- Front AV (EXT-3) Input available.
- Stereo sound systems (German+Nicam) are available.
- Full function Teletext (Fastext, Toptext).
- It is possible to connect headphone.
- Direct channel access.
- A.P.S. (Automatic Programming System).
- All programmes can be named.
- Forward or backward automatic tuning.
- Sleep timer.
- Child Lock.
- Blue Background.
- Comb Filter : Digital circuitry to make adjustments providing outstanding picture quality with sharp, crisp edges, while virtually eliminating dot crawl.
- CTI : (Colour Transient Improvement) Improvement of horizontal transitions of chrominance (colour) signals.
- T-V Link.
- Automatic sound mute when no transmission.
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to stand-by mode.
- WSS (Wide Screen Signaling).
- NTSC Playback.

Before Switching on your TV

Power connection

Important: The TV set is designed to operate on **220-240 V AC, 50 Hz.**

- After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.

Aerial Connections

- Connect the aerial plug to the aerial input socket located at the back of the TV.

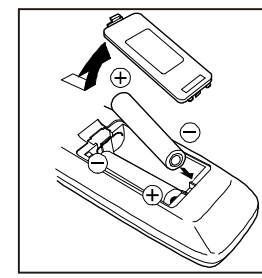
How to connect the external equipments

See “**Connect the External Equipments**” on **page 15**.

- See the instruction manuals provided with the external devices too.

Inserting batteries in the remote control handset

- Remove the battery cover located on the back of the handset by gently pulling upwards from the indicated part.
- Insert two **AA (R6)** or equivalent type batteries inside.
- Replace the battery cover.



NOTE: Remove batteries from remote control handset when it is not to be used for a long period. Otherwise it can be damaged due to any leakage of batteries.

Switching the TV ON/OFF

You can operate your TV either using the remote control handset or directly using the TV onset buttons.

To switch the TV on

Your TV will switch on in two steps:

1- Press the power button located on the front of the TV. Then the TV switches itself to standby mode and the **RED LED** located below the TV turns on.

2- To switch on the TV from stand-by mode either:

Press a digit button on the remote control so that a programme number is selected,

or,

Press Standby / Power Button or Programme Up and Down buttons on the TV or on the remote control respectively, so the TV will switch on and the **RED** Led will turn **GREEN**.

IMPORTANT:

- *If no aerial signal is received at the selected program for a period of 5 minutes then your TV automatically switches into stand-by mode.*

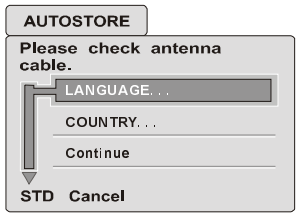
To switch the TV off

- Press the stand-by button on the remote control, so the TV will switch to stand-by mode and the **GREEN LED** will become **RED**, or,
- Press the power button located on the front of the TV.

NOTE: If you have switched of the TV set from the power button instead of the remote control, next time you press the power button, the TV set will switch on without going to the stand-by mode.

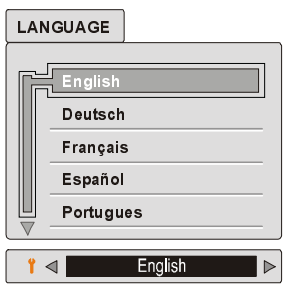
Initial Settings

When the TV is first turned on. It enters the initial setting mode, and the **AUTOSTORE** menu is displayed. Follow the instructions below to do the initial settings.



- The **AUTOSTORE** menu does not appear when your TV has been turned on once. In this case, use the "**LANGUAGE**", "**COUNTRY**" and "**AUTOSTORE**" items in the **INSTALL** menu to make the initial settings. For details, see "**Install (Installation) Menu**" on **page 8**.
- If you want to do the initial settings later, press "**STANDARD**" button to turn the menu off.

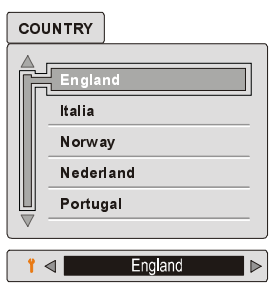
1. Press "**P** ∧" or "**P** ∨" button to select "**LANGUAGE**" item. Then press the "◀" or "▶" button to enter the "**LANGUAGE**" sub-menu.



2. Press "**P** ∧" or "**P** ∨" button to select a language. Then press the "◀" or "▶" button to store it.

3. Press the **MENU** button to return to the **AUTOSTORE** menu.

4. Press "**P** ∧" or "**P** ∨" button to select "**COUNTRY**" item. Then press the "◀" or "▶" button to enter the "**COUNTRY**" sub-menu.

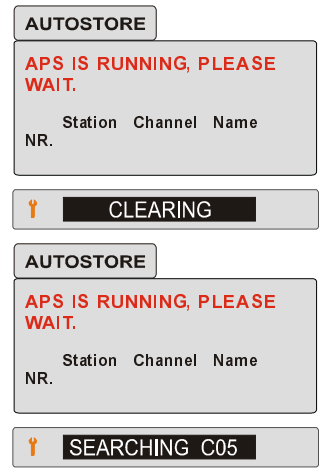


5. Press "**P** ∧" or "**P** ∨" button to select the country where you are now located. Then press the "◀" or "▶" button to store it.

6. Press the **MENU** button to return to the **AUTOSTORE** menu.

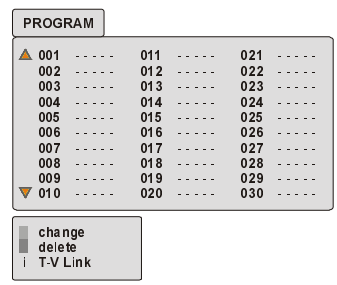
7. Press "**P** ∧" or "**P** ∨" button to select "**Continue**" item. Then press "▶" button to start the **AUTOSTORE** function.

The **AUTOSTORE** function automatically stores the received channels in your TV's programme numbers.



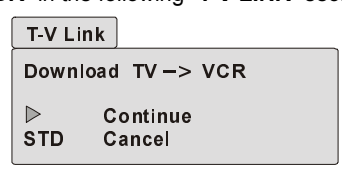
APS: Automatic Programming System

After the **AUTOSTORE** is finalized, "**PROGRAM**" menu appears. You can delete a channel or change a programme number. For details, see "**PROGRAM Menu**" on **page 10**.



8. If you do not have a **T-V LINK** compatible VCR, press "**STANDARD**" button to exit the menu.

If you have a **T-V LINK** compatible VCR connected to the **EXT-2** terminal, press "ⓘ" button to display "**T-V LINK**" menu. Then follow the operating procedure "**Downloading data to VCR**" in the following "**T-V LINK**" section.



If a channel you want to view is not stored, store it using the **TUNING** menu. For details, see "**Tuning Menu**" on **page 9**.

T-V LINK

When a T-V LINK compatible VCR is connected to the **EXT-2** Terminal on the TV, it is easier to set up the VCR and to view videos. T-V LINK uses the following features:

To use T-V LINK functions:

A "**T-V LINK compatible VCR**" means a JVC video cassette recorder with the T-V LINK logo, or with one of the following logos. However, these VCRs may support some or all of the features described earlier. For details, see your VCR instruction manual.

"**Q-LINK**" (a trademark of Panasonic Corporation)

"**Data Logic**" (a trademark of Metz Corporation)

"**Easy Link**" (a trademark of Phillips Corporation)

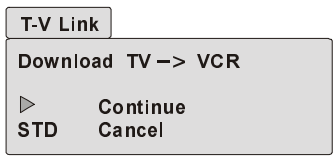
"**Megalogic**" (a trademark of Grundig Corporation)

"**SMARTLINK**" (a trademark of Sony Corporation)

Downloading data to VCR:

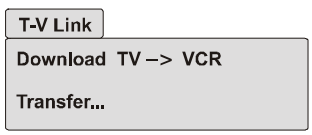
The VCR will automatically download the registered data on the TV channels from the TV. This means you do not need to set up the programme channels on your VCR manually.

The "**T-V LINK**" menu will be displayed when you press the "ⓘ" button while "**PROGRAM**" menu is displayed, or whenever the "**INSTALL**" menu operations are performed.



Press "▶" button to start downloading data to VCR.

• If you do not want to do, press the "**STANDARD**" button to exit the menu.



When "**FEATURE NOT AVAILABLE**" is displayed:

If "**FEATURE NOT AVAILABLE**" is displayed, the download was not performed correctly. Before trying to download again, check that:

• The VCR power is turned on

• The VCR is T-V LINK compatible

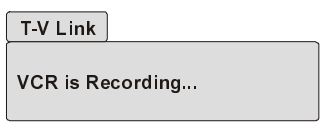
• The VCR is connected to the EXT-2 terminal

• The SCART cable is fully wired.

Direct Rec:

"**What You See Is What You Record**"

You can easy record to VCR the images that you are watching on the TV. For details, read the manual for your VCR, Use your VCR controls. You cannot carryout Direct Rec using your TV's control.



When the VCR is not ready (for example when there is no tape inserted), "**NO RECORDING**" is displayed.

In the following situations, the VCR will stop recording if the TV is turned off, if the TV channel or input is changed, or if the menu is displayed on the TV:

• When recording images from an external device connected to the TV. (for example a camcorder)

• When recording a TV channel after it has been unscrambled on a decoder.

• When recording a TV channel by using the TV's output because the VCR's own tuner cannot properly receive that channel.

TV auto power on/VCR image view:

When the VCR starts playing, the TV automatically turns on and the images from **EXT.2 (EXT-2)** terminal appear on the screen.

This function does not happen if your TV's main power is turned off. Set your TV's main power to on (standby mode).

Operating with the onset buttons

Volume setting and programme selection can be made using the buttons on the right side of the TV.

Volume Setting:

• Press "**-** ◢" button to decrease volume or "◢ **+**" button to increase volume, so a volume level scale will be displayed on the screen.

Programme Selecting:

• Press "**P/Ch+**" button to select next programme or "**P/Ch-**" button to select the previous programme.

Entering Main Menu:

• Press "**MENU**" button to enter main menu. In the main menu select submenu using "**P/Ch+**" or "**P/Ch-**" button and enter the submenu using "◢ **+**" or "**-** ◢" button. To learn the usage of the menus, refer to the **Menu System** section of this manual.

Operating with Remote Control

The remote control handset of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.

Functions which you can use out of menu system are described below.

Volume Setting:

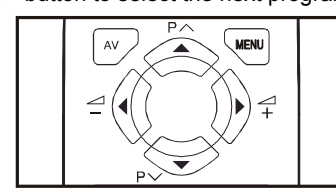
Press "+" button to increase volume.

Press "−" button to decrease volume.

Programme Selecting (Previous or next programme):

• Press "**P** ∨" button to select the previous programme.

• Press "**P** ∧" button to select the next programme.



Programme Selecting (direct access):

Press digit buttons on the remote control handset to select programmes between 0 and 9. TV will switch to the selected program after a short delay.

• For a two or three digit program number enter the second or third digit after pressing the first digit within 2 seconds.

Menu System

Your TV has been designed with a menu system. Display "**MENU**" (main menu) and enter one of four menus **(PICTURE, SOUND, INSTALL** and **FEATURE)**.

1- Press "**MENU**" button to display "**MENU**" (main menu). The menu titles will be displayed in the main menu.

2- Press "**P** ∧" or "**P** ∨" button to select a menu title, then press "◀" or "▶" button to enter the menu.

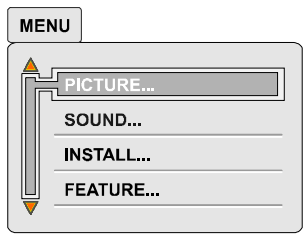
• To exit a menu, press "**STANDARD**" button.

• To go to the previous menu, press "**MENU**" button.

Picture Menu

To change picture settings:

• Press "**MENU**" button, now you are in main menu. In the main menu, select **PICTURE** using "**P** ∧" or "**P** ∨" button, then enter the picture menu pressing "◀" or "▶" button.



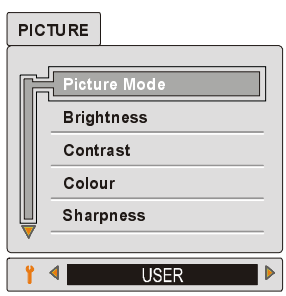
Note: When Picture Mode is not "**USER**", BRIGHTNESS, CONTRAST and COLOUR options can not be reached by "**P** ∧" or "**P** ∨" buttons.

Factory Settings:

In the Picture Menu if you press the **YELLOW** button the adjustmens switches themselves to the factory settings.

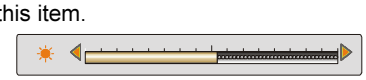
You can change the values of this items firstly by selecting the item by "**P** ∧" or "**P** ∨" button and then by using "◀" or "▶" button. The **PICTURE** menu disappears and level indicators are displayed while items are changed. The **PICTURE** menu is restored after adjustment is finished.

This item is used to change the picture mode. By pressing "◀" or "▶" button you may choose one of these options: **Bright**, **Standard**, **Soft**, **User**.



You can change **Brightness** only when Picture Mode is selected **User**.

• You can change the **Brightness** by "◀" or "▶" button after selecting this item.

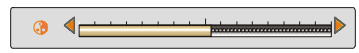


You can change **Contrast** only when Picture Mode is selected **User**.

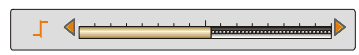
• You can change the **Contrast** by "◀" or "▶" button after selecting this item.

You can change **Colour** only when Picture Mode is selected **User**.

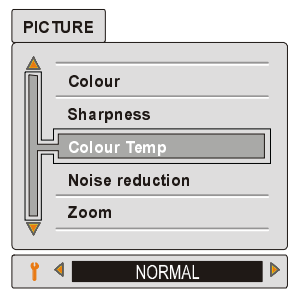
• You can change the **Colour** by "◀" or "▶" button after selecting this item.



• You can change the **Sharpness** by "◀" or "▶" button after selecting this item.



• You can adjust the **Colour Temp** item as **Normal**, **Warm** and **Cool**. Using "◀" or "▶" button toggle between these three settings.



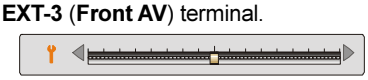
• The **Noise reduction** can be adjusted in four different levels: **Minumum, Medium, Maximum** and **Auto**. Additionally it can be cancelled by selecting the **OFF** option. Pressing "◀" or "▶" button toggles between these five settings.

• The **Zoom** can be three different modes: **Auto**, **4:3** or **16:9** modes. Using "◀" or "▶" button toggle between these different screen formats.

The Picture Mode can be stored for all channels (200 channels) individually.

It is also possible to change picture modes directly by pressing "**ZOOM**" button **(RED button)** on your remote control.

• You can change the **Hue** for **NTSC 3.58/4.43** systems by "◀" or "▶" button after selecting this item. A level indicator for Hue is displayed while changing this item. The Hue bar is displayed while an NTSC signal is input from the **EXT-1**, **EXT-2**, or **EXT-3** (**Front AV**) terminal.



Recalling Factory settings.:

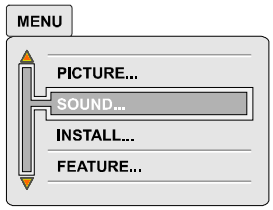
You can re-set the current **PICTURE** menu settings (except **Noise Reduction** and **Colour Temp** settings) to the default settings.

• Press "**STANDARD**" button when no menu appears.

Sound Menu

To change sound settings:

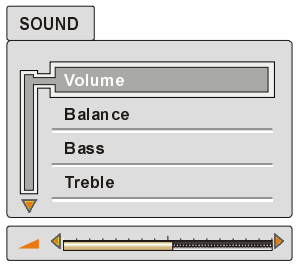
• Press "**MENU**" button, now you are in main menu. In the main menu, select **SOUND** using "**P** ∧" or "**P** ∨" button, then enter the sound menu pressing "◀" or "▶" button.



Setting Volume:

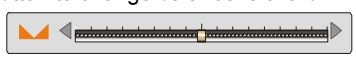
Using "**P** ∧" or "**P** ∨" button to select Volume.

- Press "▶" button to increase volume.
- Press "◀" button to decrease volume.



Setting Balance:

- Using "**P** ∧" or "**P** ∨" button select Balance.
- Press "▶" button to change balance rightward.
- Press "◀" button to change balance leftward.

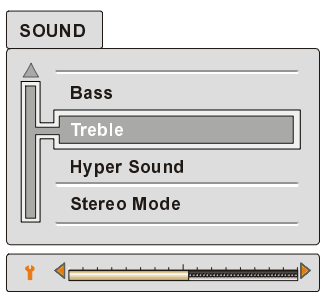


Setting Bass Level:

- Using "**P** ∧" or "**P** ∨" button select Bass.
- Press "▶" button to increase bass level.
- Press "◀" button to decrease bass level.

Setting Treble Level:

- Using "**P** ∧" or "**P** ∨" button select Treble.
- Press "▶" button to increase treble level.
- Press "◀" button to decrease treble level.



Hyper Sound:

You can use this feature to switch on or off Hyper Sound. Pressing "◀" or "▶" button will turn on or off this feature. If the current sound system is **MONO** and the Hyper Sound is set **ON**, then the sound will be heard as if it is **STEREO**. If the current sound system is **STEREO**, switching Hyper Sound on will make the sound deeper. Switching it off will make no change in **MONO** and **STEREO**.

Hyper Sound can be set On or Off also by **GREEN** button.

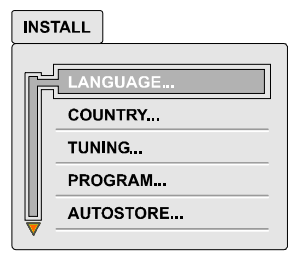
Stereo Mode:

You can use this feature to switch the broadcasting languge the dubbed or original language. Some TV channels broadcasts the programmes in two languages. If the TV channel you are watching broadcasts in two languages (e.g. Eurosport), you can select the dubbed or original language by setting this item to **DUAL I** or **DUAL II** by pressing "◀" or "▶" button. the other options of this item are **MONO** and **STEREO** (**NICAM STEREO**).

If the stereo broadcast is received poorly, you can change this item from Stereo to mono sound so that you can hear the broadcast more clearly and easily.

Install (Installation) Menu

- Press "**MENU**" button, now you are in main menu. In the main menu, select **INSTALL**, using "**P** ∧" or "**P** ∨" button. Then enter the **INSTALL** menu pressing "◀" or "▶" button.



Menu Language Selection:

Press the "**P** ∧" or "**P** ∨" button to select **"LANGUAGE"** item.

Press "◀" or "▶" button to enter **"LANGUAGE"** sub-menu.

Press "**P** ∧" or "**P** ∨" button to select the desired menu language:

- After selecting the menu language press "◀" or "▶" button to store the selected language.
- Press **MENU** button to return to the **INSTALL** menu, or Press **"STANDARD"** button to exit the menu.

Country Selection:

- Press the "**P** ∧" or "**P** ∨" button to select the **"COUNTRY"** item.
- Press "◀" or "▶" button to enter the **"COUNTRY"** sub-menu.

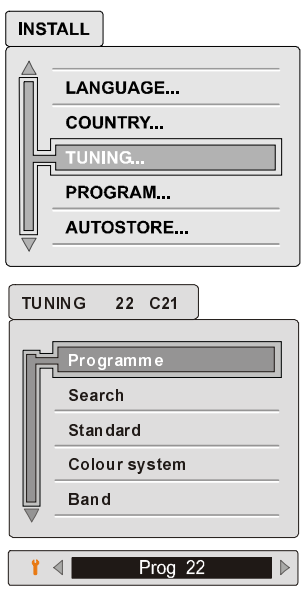
- Press "**P** ∧" or "**P** ∨" button to select the country where you are now located.
- After selecting the country, press "◀" or "▶" button to store the selected country.
- Press **MENU** button to return to the **INSTALL** menu, or Press **STANDARD** button to exit the menu.

Tuning Menu:

You can store a channel manually, or modify the current settings of a channel (for example, changing the channel name).

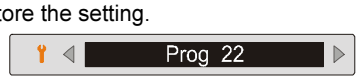
In an AV mode, you can change only the "**MODE**" or "**COLOUR SYSTEM**" setting.

- If you want to modify the current settings of a channel, select the channel of which you want to modify the setting. Then display the main menu on the screen.
- Press "**P** ∧" or "**P** ∨" button to select "**TUNING**" item.
- Press "◀" or "▶" button to enter "**TUNING**" menu.



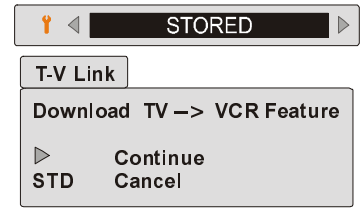
1. Press "**P** ∧" or "**P** ∨" to select an item in the "**TUNING**" menu. Then press "◀" or "▶" button to change the setting.

2. After all settings of a channel are completed, press "**P** ∧" or "**P** ∨" button to select "**Programme**" item. Then press "◀" or "▶" button to select a programme number which you want to store the setting.



3. Press "**P** ∧" or "**P** ∨" button to select "**Store**" item. Then press "◀" or "▶" button to store the setting.

The "**STORED**" appears at the bottom of the menu for 3 seconds. Then T-V LINK menu appears.



4. If you do not have a **T-V LINK** compatible **VCR**, press "**STANDARD**" button to exit the menu.

If you have a **T-V LINK** compatible **VCR** connected to the **EXT-2** terminal, follow the operating procedure "**Downloading the data to VCR**" on **page 6** to transmit the Programme table data to the VCR.

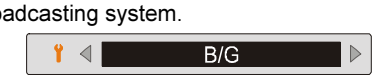
Search:

You can search a channel manually.

- Select "**Search**" item. Then press "◀" or "▶" button to start searching. "**SEARCHING**" is displayed while the TV is searching a channel.
- Searching stops when the TV finds a channel. Then the channel is displayed.
- Press "◀" or "▶" button repeatedly until the channel you want appears.
- When you cannot search a channel you want, select the "**Standard**" item and select other broadcasting system. Then start searching again.

Standard:

- If you cannot hear the normal sound even when the picture appears normally, select the correct broadcasting system to hear the sound normally.
- Select "**Standard**" item. Then press "◀" or "▶" button to select a broadcasting system.



Colour system:

- If the picture is not clear or no colour appears, select the correct colour system to display the picture normally.
- Select "**Colour system**" item. Then press "◀" or "▶" button to select a colour system.

Band, Channel:

- If you know a channel number, you can find it directly by entering the channel number.
- Select the "**Band**" item. Then press "◀" or "▶" button to select the band (**C** or **S**) where the channel you want is located.

- Select the "**Channel**" item. Then press "◀" or "▶" button to select the channel number, or enter the channel number with the digit buttons. The available channel numbers differ depending on your "**COUNTRY**" and "**Standard**" settings.

Fine tuning:

If the channel reception is poor, fine-tune the channel.

• Select "**Fine tuning**" item. Then press "◀" or "▶" button to fine -tune the channel.

Name:

You can store the channel name or change it.

• Select "**Name**" item. Then press "◀" or "▶" button to display a cursor.

• Press "**P** ∧" or "**P** ∨" button to select a character and press "◀" or "▶" button to move the cursor.

• After the name is completed, press the **MENU** button.

Mode:

Set "**Mode**" item to "**TV**" for the TV channels.

• When you watch a picture from your VCR and the picture is unstable, you may improve it by changing the "**Mode**" setting from "**TV**" to "**VCR**".

Decoder (EXT-2):

You can only set "**Decoder (EXT-2)**" item to "**ON**" if you have a decoder connected to a **T-V LINK** compatible VCR, which in turn is connected to the **EXT-2** terminal. To use this item, please see the

"**Using the Decoder (EXT-2) function**" on the following section.

Store:

After the all settings are completed, store the new channel's setting to the programme number which you selected.

• Press "**P** ∧" or "**P** ∨" button to select "**Store**", then press "◀" or "▶" to store it.

Using the Decoder (EXT-2) function

If you have a decoder connected to a **T-V LINK** compatible **VCR**, which in turn is connected to the **EXT-2** terminal, use **DECODER (EXT-2)** to unscramble the scrambled TV channels.

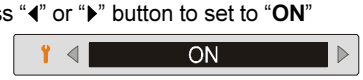
1. Exit the menu.

2. Turn on the decoder power.

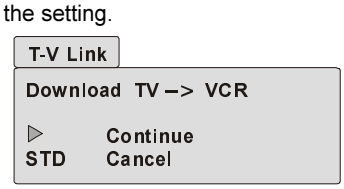
3. Display the scrambled TV channel on the TV. Even if the decoder is working, a scrambled picture appears.

4. Display the "**INSTALL.**" menu again.

5. Press "**P** ∧" or "**P** ∨" button to select **DECODER (EXT-2)**, then press "◀" or "▶" button to set to "**ON**"



6. Press "**P** ∧" or "**P** ∨" to select **STORE**, then press "◀" or "▶" button to store it. "**T-V LINK**" menu will appear after the TV stores the setting.



7. Follow the operating procedure "**Downloading the data to VCR**" on **page 6** to transmit the revised programme table data to the VCR.

• If you do not want to transmit, press "**STANDARD**" button to exit the menu.

Note:

You can only use this item if you have a decoder connected to a T-V LINK compatible VCR to EXT-2 terminal. Setting this item to "**ON**" by mistake causes the picture/sound of a TV channel you are currently viewing to disappear.

If this item has been set to "**ON**" but the TV channel cannot be unscrambled, check the following:

• Has the decoder been connected to the VCR properly according to the VCR and Decoder instruction manuals?

• Can the TV channel be unscrambled with a decoder?

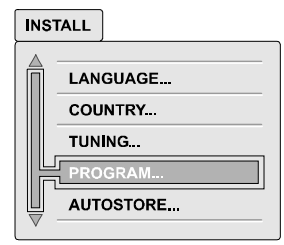
• Do you need to change the VCR settings in order to connect the decoder? Confirm that the VCR is set properly by rechecking the VCR instruction manual.

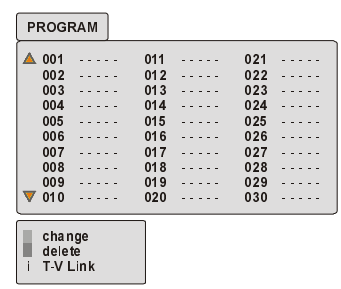
Program Menu:

You can use the **PROGRAM** menu to change a programme number, delete a channel.

• Press "**P** ∧" or "**P** ∨" button to select "**PROGRAM**" item.

• Press "◀" or "▶" button to enter the **PROGRAM** menu.





To choose a channel in the PROGRAM menu:

Press "**P** ∧" / "**P** ∨"/ "◀" / "▶" button.

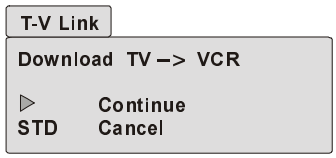
The colour of the programme number that you choose is changed in the **PROGRAM** menu and you can view the picture of that channel.

Caution:

Using "**DELETE**" or "**CHANGE**" item rewrite the current channel list in the **PROGRAM** menu. Therefore, the programme numbers of some of channels will change.

When you complete the settings of PROGRAM menu:

If you have a **T-V LINK** compatible VCR, press the "ⓘ" button to display the **T-V LINK** menu. Then follow the operating procedure "**Downloading the data to VCR**" on **page 6** to transmit the Programme table data to the VCR.



If you do not have a **T-V LINK** compatible **VCR**, press "**STANDARD**" button to exit the menu.

To change a programme number (CHANGE):

1. Select a channel that you want to change its programme number.

2. Press Blue button to enter the **CHANGE** mode.

3. Press "**P** ∧" / "**P** ∨"/ "◀" / "▶" button to select the programme number that you want to change the programme number of the selected channel to.

4. Press Blue button. Two channels of the selected programme numbers will be exchanged.

To delete a channel (DELETE):

1. Select a channel that you want to delete.

2. Press Red button to delete it.

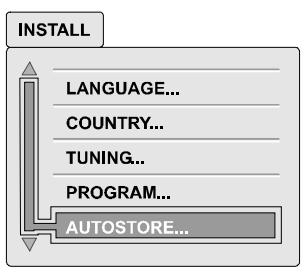
Autostore Menu:

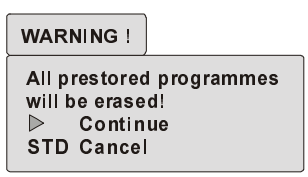
The **AUTOSTORE** function automatically programmes the received channels in your TV's programme numbers.

Before use this function, please confirm that the "**LANGUAGE**" and "**COUNTRY**" setting are correct.

1. Press "**P** ∧" or "**P** ∨" button to select "**AUTOSTORE**" item.

2. Press "◀" or "▶" button to enter the **AUTOSTORE** menu.





• A warning message "**All prestored programmes will be erased!**" appears in a message box.

3. Press "▶" button to start the **AUTOSTORE** function.

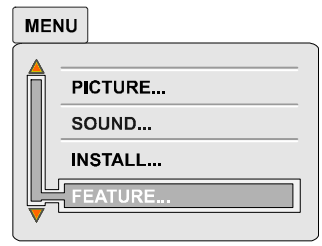
• To cancel the **AUTOSTORE** function, press the "**STANDARD**" button.

4. After the **AUTOSTORE** is finalized, the **PROGRAM** menu appears.

Please see "**Program Menu**" on above section.

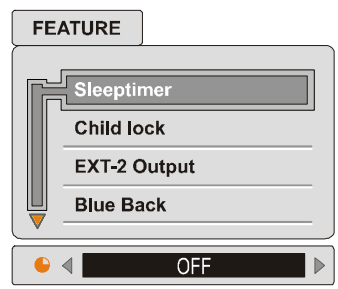
Feature Menu

• Press "**MENU**" button, now you are in main menu. In the main menu, select **FEATURE**, using "**P** ∧" or "**P** ∨" button. Then enter the feature menu pressing "◀" or "▶" button.



Sleep timer:

The sleep timer is used to turn the TV off after a defined period. Press "◀" or "▶" button to choose a priod of time after selecting this item. The timer can be programmed between Off and 120 minutes in steps of 10 minutes. One minute before the "**Sleep timer**" function turns the TV off, the remaining time will be displayed.



Child lock:

You can disable the control panel buttons (except the POWER button) with this item.

Press "◀" or "▶" button to change the setting to ON or OFF after selecting this item.

When you set this item to ON, the TV can be operated only by using the remote control handset.

Warning: If Child Lock item is set to ON, the TV can not be operated by VCR.

Setting External Source Output:

• You can use this menu to select the internal or external source that will be output at **EXT.2 (EXT-2)** terminal.

• In the "**FEATURE**" menu select "**EXT-2 Output**" using "**P** ∧" or "**P** ∨" button. Then select the source you want to be output at **EXT-2** pressing "◀" or "▶" button (one of the sources: **TV, EXT-1** or **EXT-3 (Front AV)**.

Blue Background During No-Signal:

The **Blue Back** feature can be set by "◀" or "▶" button to either **On** or **Off**.

Other Features

Sound Mute

To cut off the sound of the TV press "🔇" button. The sound will be cut off. To cancel mute, press "🔇" or "🔊+" or "🔊−" button. The volume level will be the same as the level before mute if you cancel mute pressing "🔇" button again.

Stereo / Bilingual

- If the TV channel you are watching broadcasts in two languages (e.g. Eurosport), you can select the dubbed or the original language, by setting **Stereo Mode** to **Dual I** or **Dual II** in Sound menu.
- When the stereo broadcast is received poorly, you can change from stereo to mono sound so that you can hear the broadcast more clearly and easily.

Information on Screen

First pressing the "ⓘ" button displays the current status "**Programme number**", "**Station name**" and "**Sound status**".

Pressing this button again displays the current time.

Pressing this button once more remove the on-screen display.

To Display the Time

- While watching a TV programme with Teletext transmission press "ⓘ" button twice. The current time information, captured from Teletext will be displayed at the upper left corner of the screen.
- If the programme being watched does not have Teletext transmission, no time information will be displayed.
- The time information will disappear after pressing "ⓘ" button again.

Picture

You can change **Picture Mode** settings by pressing "**STANDARD**" button when no menu appears.

Recalling Factory settings.:

You can re-set the current **PICTURE** menu settings (except **Noise Reduction** and **Colour Temp** settings) to the default settings.

- Press "**STANDARD**" button when no menu appears.

VCR Control Buttons

The buttons can be used to operate a JVC brand VCR. Pressing the button having the same appearance as the original remote control button of a device makes the function work in the same way as the original remote control.

Press the VCR Control Button to control your VCR.

Note:

- If your device is not made by JVC, these buttons cannot be used.
- Even if your device is made by JVC, some of these buttons or any one of the buttons may not work, depending on the device.
- You can use the ∧ / ∨ buttons to choose a TV channel which the VCR will receive.

Teletext

Teletext is an information system that displays text on your TV screen. Using the Teletext information system you can view a page of information on a subject that is available in the list of contents (index).

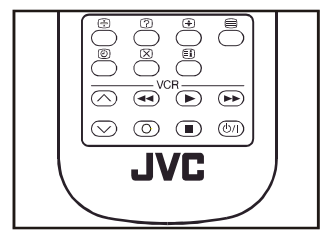
No on screen display will be available in text mode.

While no teletext information available in the selected programme, if you press (teletext) "📄" button,"**No Teletext Transmission**" warning appears at the center of the screen.

No contrast, brightness or colour control, but volume control is available in text mode.

To operate Teletext

- Select a TV station on which Teletext is being transmitted.
- Press (teletext) "📄" button. Usually the list of contents (index) is displayed on the screen.

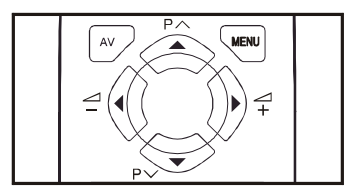


To select a page of Teletext

- Press the appropriate digit buttons for the required Teletext page number.

The selected page number is displayed at the top left corner of the screen. The Teletext page counter searches until the selected page number is located, so that the desired page is displayed on the screen.

- Press "**P** ∧" button to move the Teletext screen forward one page at a time.
- Press "**P** ∨" button to move the Teletext screen backward one page at a time.



To Select Index Page

- To select the page number of the index (generally page 100), press "📑" button.

Searching for a teletext page while watching TV

- In the Teletext mode pressing "⊠" button will switch the screen to the TV mode. In the TV mode enter a page number using digit buttons. As you enter last digit of page number, "📄" sign will replace the page number and flash until

the entered page number is found. Then the page number will replace "▤" sign again. Now you can display this teletext page pressing "⊠" button.

To Select Double Height Text

- Press "⊕" button for the top half of the information page to be displayed in double height text.
- Press "⊕" button again for the bottom half of the information page to be displayed in double height text.
- Press "⊕" button once more for the full page of normal height text.

To Reveal "concealed" Information

- Pressing "?" button once will reveal answers on a quiz or games page.
- Pressing "?" button again will conceal the revealed answers.

To Stop Automatic Page Change

The teletext page you have selected may contain more information than what is on the screen; the rest of the information will be displayed after a period of time.

- Press "⊕" button to stop the automatic page change.
- Press "⊕" button again to allow the next page to be displayed.

To Select a Subcode Page

Subcode pages are subsections of long Teletext pages that can only be displayed on the screen one section at a time.

- Select the required Teletext page.
- Press "◴" button.
- Select the required subcode page number by pressing four digit buttons (e.g. 0001).
- If the selected subcode page is not displayed in a short time, press "⊠" button. TV programme will be displayed on the screen.
- Teletext page number will be displayed on the upper left corner of the screen when the selected page is found.
- Press "⊠" button to display the selected Teletext page.

To exit Teletext

- Press "▤" button. The screen will switch to TV mode.

Fastext and Toptext

Teletext mode will be selected according to transmission automatically.

Your CTV supports the 7 page Teletext system. When the page number of any of the 7 pages in memory is entered, the system will not search for the requested page; instead it will display the page automatically.

- Press "**P** ∧" button to move the Teletext screen forward one page at a time.
- Press "**P** ∨" button to move the Teletext screen backward one page at a time.

For Fastext and Toptext:

The subject-heading for the information may have a particular colour or can be in a form located in a coloured box.

- Press an appropriate **RED, GREEN, YELLOW** or **BLUE** button in order to reach the relevant page quickly.

For TOPTEXT:

If Toptext transmission is present, colour coded buttons will appear in status row.

If Toptext transmission is not present, status row will not appear.

In Toptext mode the "**P** ∧" or "**P** ∨" commands will request the next or previous page respectively. If Toptext transmission is not available, in case of operation of these commands, wraparound occurs. For example page 100 appears to be one greater than page 199.

Connect the External Equipments

Via the Euroconnector

Your TV set has two Euroconnector sockets. If you want to connect equipments (e.g. video recorder, decoder, etc.) which have Euroconnectors, to your TV, use the **EXT.1 (EXT-1), EXT.2 (EXT-2)** terminals.

T-V LINK compatible VCR

Be sure to connect the T-V LINK compatible VCR to the **EXT-2** terminal. If not, the T-V LINK function will not work properly.

- When connecting a T-V LINK compatible VCR to the EXT-2 terminal, be sure to connect the decoder to the VCR. If not, the **T-V LINK** function may not work properly. And then set the **DECODER (EXT-2)** function for the channel to **ON** to unscramble a scrambled channel. For details, see "**Using the Decoder (EXT-2) function**" on **page 10**.

RGB mode

If an equipment can output the **RGB** signals, connect it to the **EXT-1 (EXT.1)** terminal.

EXT-2 S Mode

If the equipment connected to your TV set supports S-Video (Y/C) output from Euroconnector, you can have a better picture quality by selecting **EXT-2 S** mode and connecting your equipment to the **EXT.2 (EXT-2 S)** terminal of TV. See your equipment's booklet to check if your equipment has such feature.

Via the RCA jacks

If you have an equipment (such as a Camcorder) which has the RCA jacks, connect it to the **Front AV (EXT-3)** terminal with the video and audio cables.

- If the epuipment has the mono audio jack, connect it to the **AUDIO-L** jack.

Via the ANT (aerial) socket

If your equipment does not have a Euroconnecter or RCA jacks, connect it to the TV with an aerial cable. For details, see the manual provided with the equipment.

- To store the test signal that comes from the equipment in a programme number, follow the instructions of "**Tuning menu**" on **page 9**. The programme number 0 is usually used for the external equipment.
- After storing, you can watch images from the equipment by selecting the programme number which you stored the test signal.

TV and Video Recoder (VCR)

- Connect the Video Recorder to the ANT (antenna input) socket of the TV with the aerial cable.
- Connect the Video Recorder to the **EXT.1** or **EXT.2** terminal with the SCART cable, or connect it to the **Front AV (EXT-3)** terminal with the audio and video cables.
- When you watch a picture from your VCR and the picture is unstable, you may improve it by changing the "**Mode**" setting in the "**TUNING**" menu. (See the "**Tuning Menu**" on **page 9**.)

NTSC Playback

Connect a NTSC video recorder to a terminal. Then press "**AV**" button to select the corresponding AV mode.

NTSC 3.58/4.43 system is detected automatically in AV mode.

Copy Facility

You can output the video and audio signals which inputs from **TV, EXT.1 (EXT-1)** or **Front AV (EXT-3)** terminal to the video recorder connected to the **EXT.2 (EXT-2)** terminal.

- To select the output source, see "**Setting External Source Output** " on **page 11**.

Connecting Headphones

Use the stereo headphone socket of your TV, to connect headphones. As soon as you connect your headphone to the headphone socket, TV's loudspeakers will automatically mute.

Connect the External Equipments

Before connecting anything

• Switch off all equipments including the TV.

• Read the manuals provided with the equipments.

To select an AV mode

Pressing "**AV**" button on the remote control selects one of AV modes (EXT-1, EXT-2, EXT-2 S and EXT-3).

• To return to the **TV** mode, repeatedly press "**AV**" button.

EXT.1 (EXT-1) terminal: Euroconnector (21-pin, SCART)

• Video input, Audio L/R inputs and RGB inputs are available.

• TV broadcast outputs (Video and Audio L/R) are available.

EXT.2 (EXT-2) terminal: Euroconnector (21-pin, SCART)

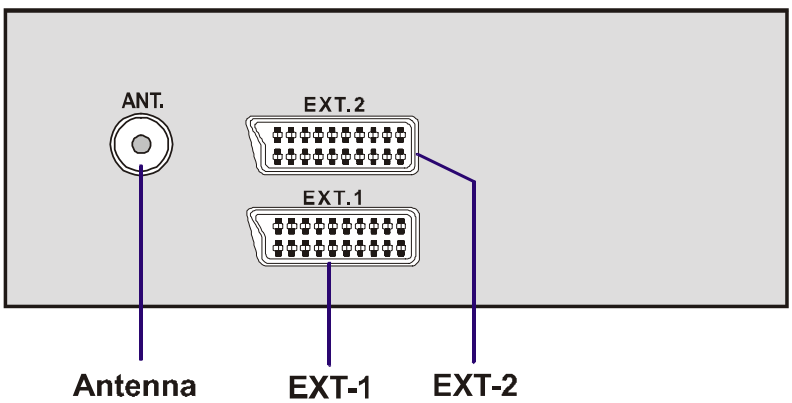
• Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.

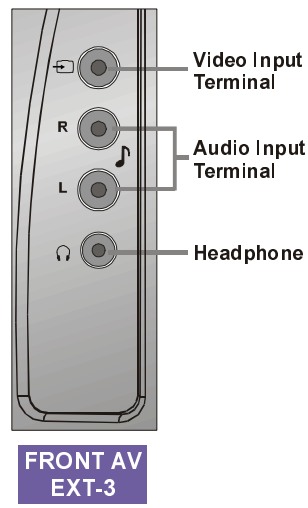
• Video and Audio L/R outputs are available. (see "**Setting External Source Output**" on **page 11**.)

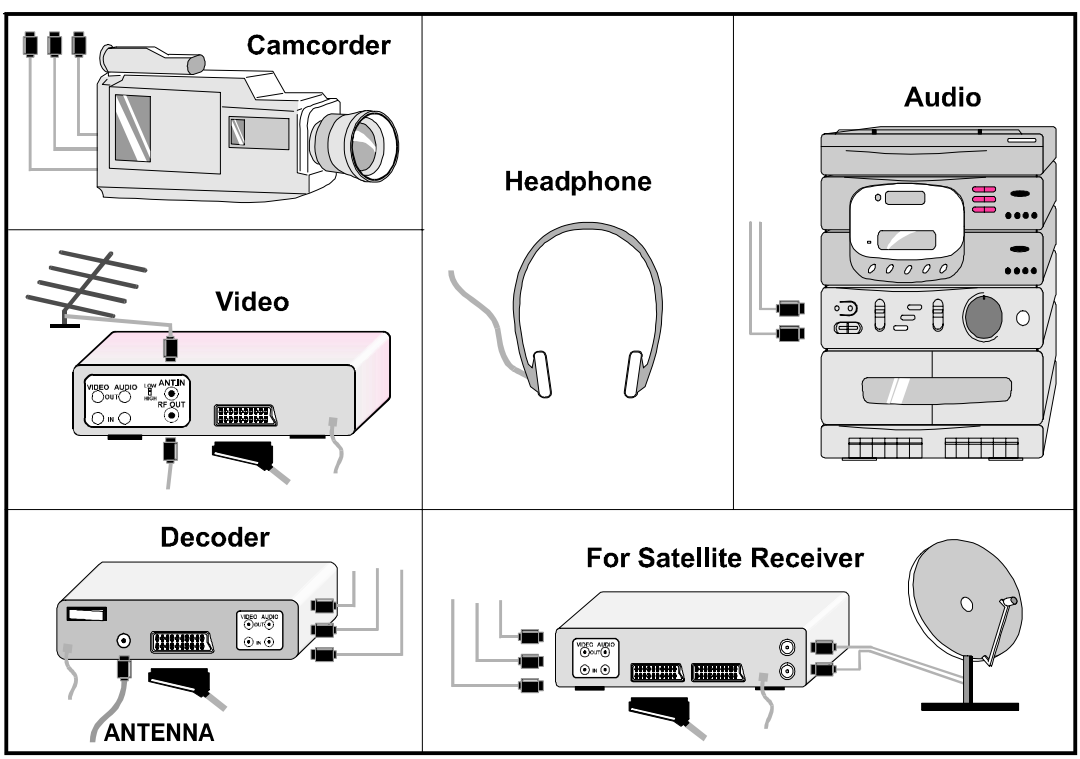
• T-V LINK functions are available. (see "**T-V LINK compatible VCR**" on **page 14**.)

Front AV (EXT-3) terminal: RCA connectors x 3

• Video input and Audio L/R inputs are available.







Tips

Care of the Screen

Clean the screen with a slightly damp, soft cloth. Do not use abrasive solvents as they may damage the TV screen coating layer.

Poor Picture

Have you selected the correct TV system? Is your TV set or house aerial located too close to the loudspeakers, non-earthed audio equipment or neon lights, etc. ?

Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.

The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

No Picture

Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer.

No Picture means that your TV is not receiving any transmission. Have you pressed the correct buttons on the remote control? Try once more.

Sound

Sound is coming from only one of the speakers. Is the balance set to one direction extreme? See **SOUND** menu.

Remote Control

If the remote control does not work properly, replace the batteries.

Have you selected the wrong menu? Press "**STANDARD**" button to return to TV mode or press "**MENU**" button to return to the previous menu.

No solution

Switch your TV set off and on. If this does not work, call the service personnel; never attempt to repair it yourself.

Specifications

TV BROADCASTING

PAL SECAM B/G D/K L/L'

RECEIVING CHANNELS

VHF (BANDI/III)

UHF (BAND U)

HYPERBAND

CABLE-TV (**B/G:** S01-S41 / S75-S79
D/K: S01-S19, S22-S41
L: S01-S41 / S75-S77)

NUMBER OF PRESET CHANNELS

200

CHANNEL INDICATOR

On Screen Display

RF AERIAL INPUT

75 Ohm (unbalanced)

OPERATING VOLTAGE

220-240V AC, 50 Hz.

SOUND-MULTIPLEX SYSTEMS

Nicam + German Stereo

PICTURE TUBE

28" 4:3

AUDIO OUTPUT POWER ($W_{RMS.}$) (%10 THD)

2 x 10

POWER CONSUMPTION (W) (max)

120 Watt

DIMENSIONS (WxHxD) (mm)

DIMENSIONS			
W	H	D	Weight (kg)
765	585	486	33

AV-28RH4BU
AV-28RH4SU

STANDARD CIRCUIT DIAGRAM

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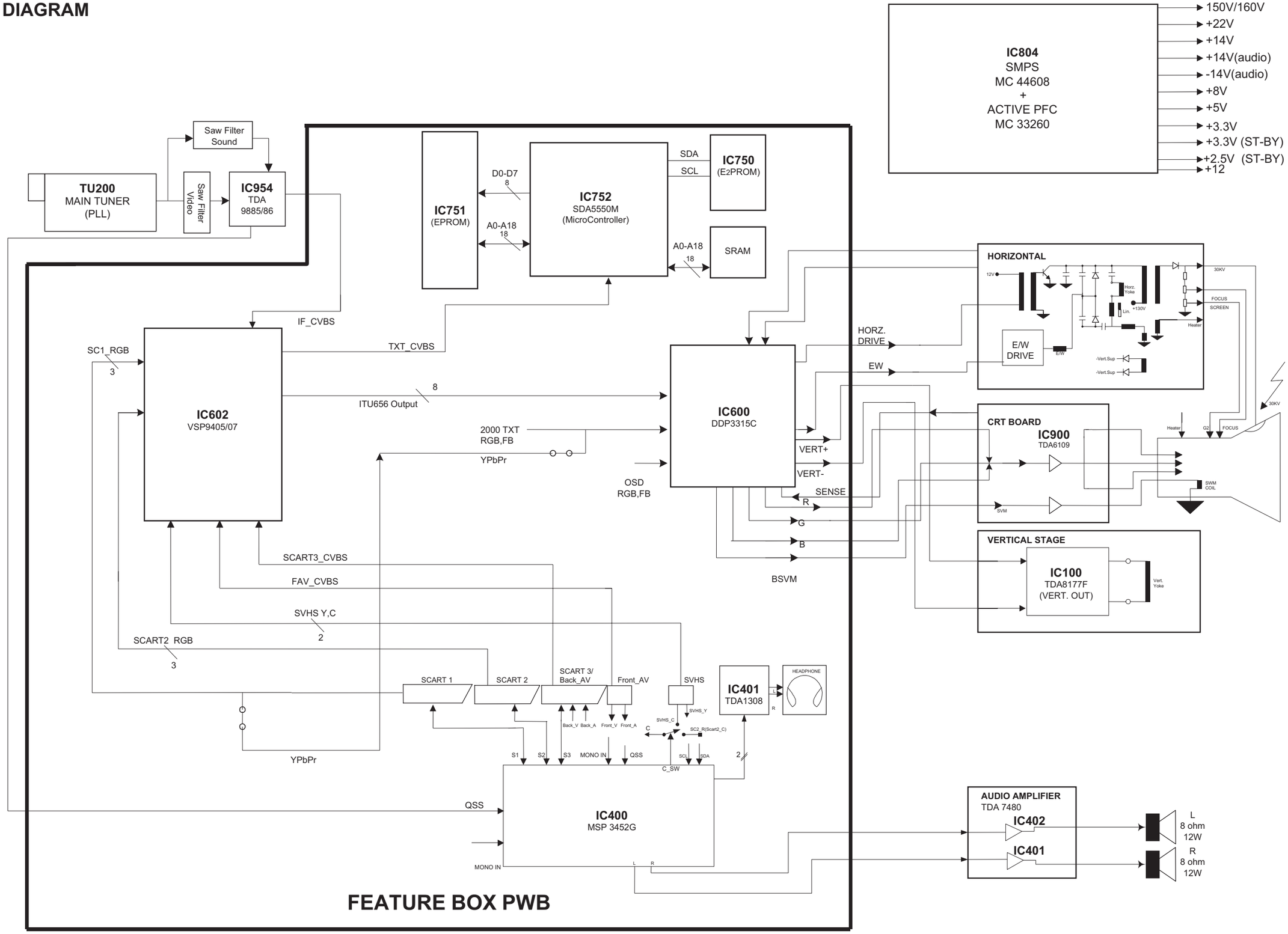
USING P.W. BOARD

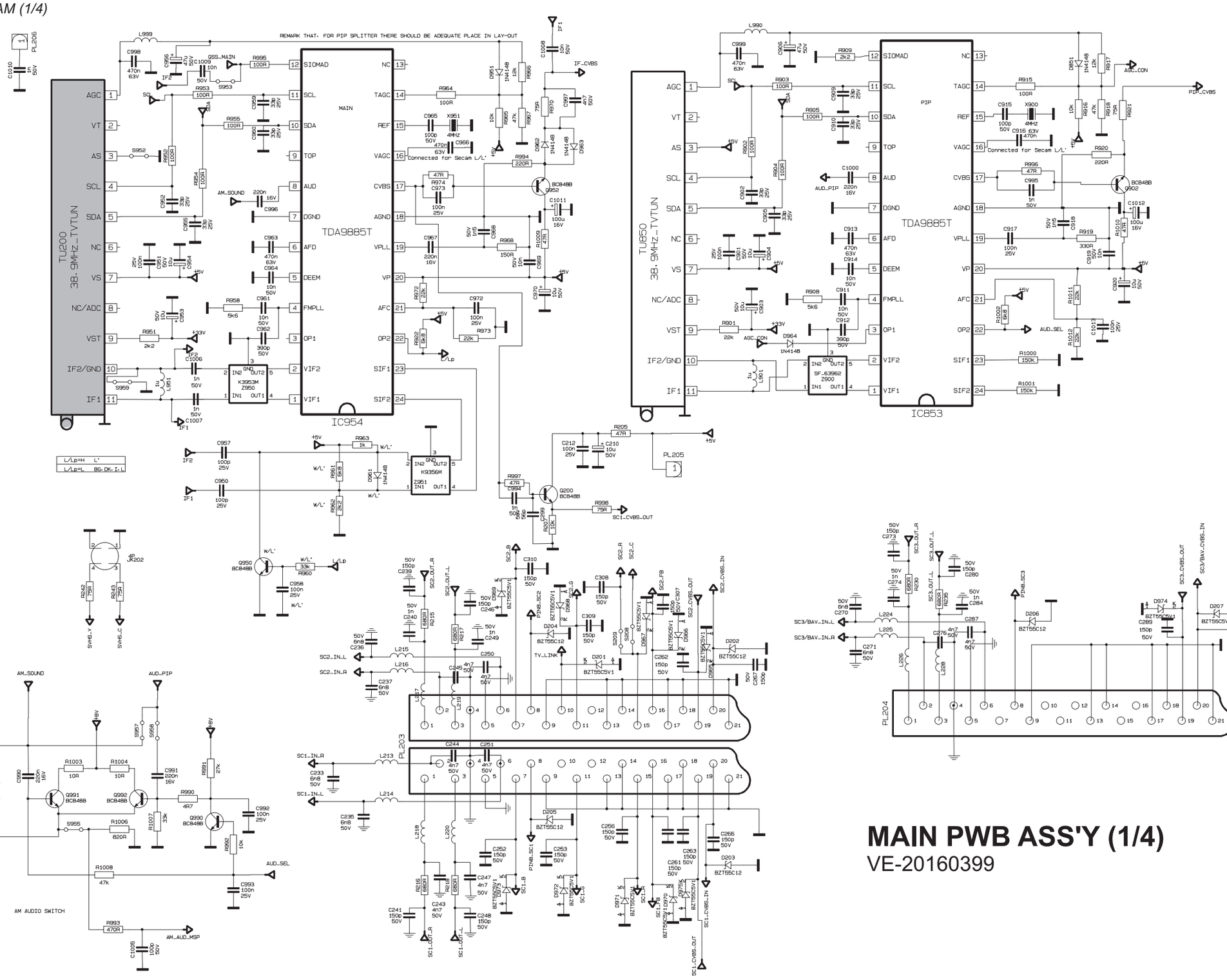
P.W.B ASS'Y name	P.W.B ASS'Y number
MAIN PWB	VE-20160399
FEATURE BOX PWB	VE-20144446
CRT SOCKET PWB	VE-20147459
FRONT CONTROL PWB	VE-20167596
AV & HEADPHONE PWB	VE-20161117
LED PWB	VE-20154915
POWER SWITCH PWB	VE-20122229

BLOCK DIAGRAM



CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/4)



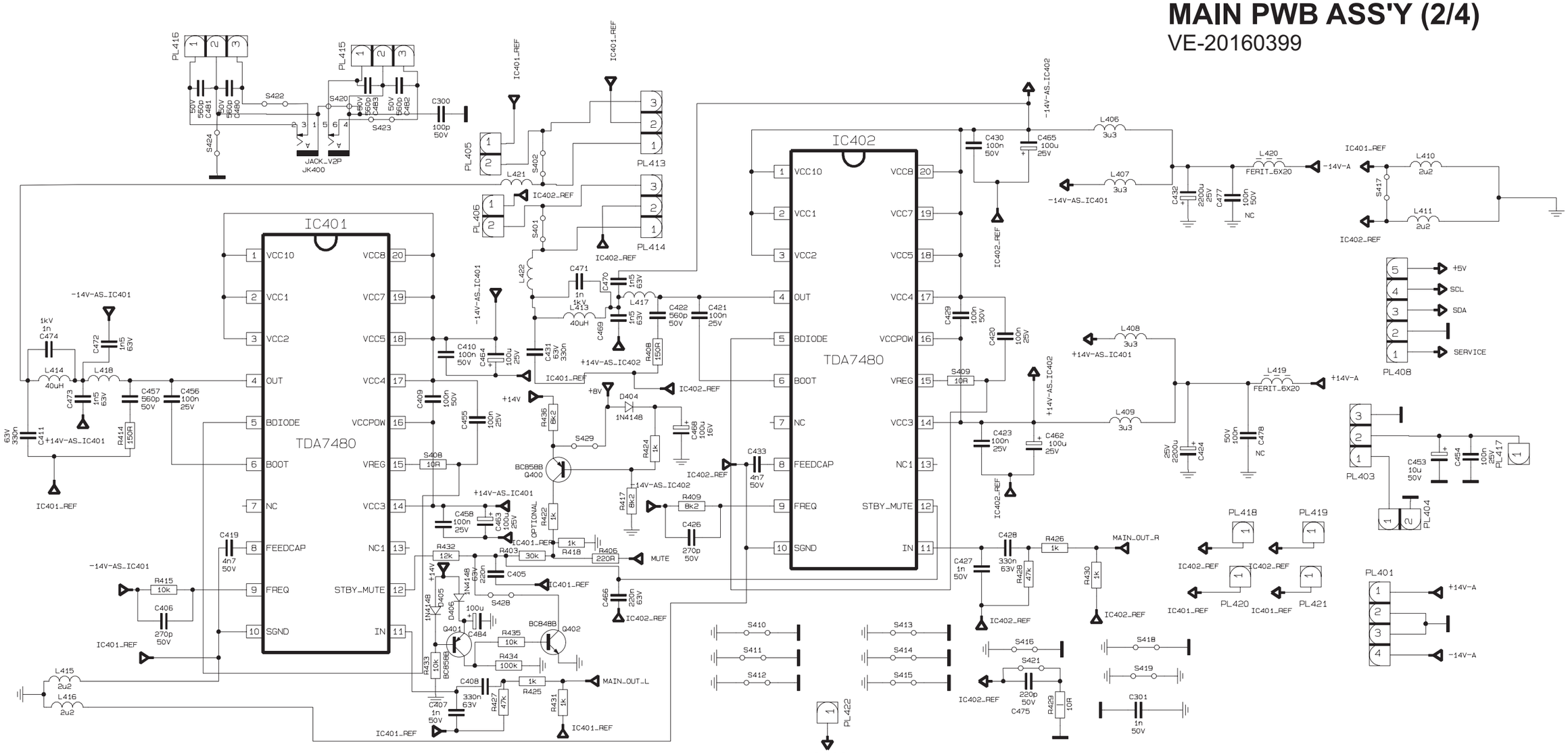
(No.YA077)2-5 2-6(No.YA077)

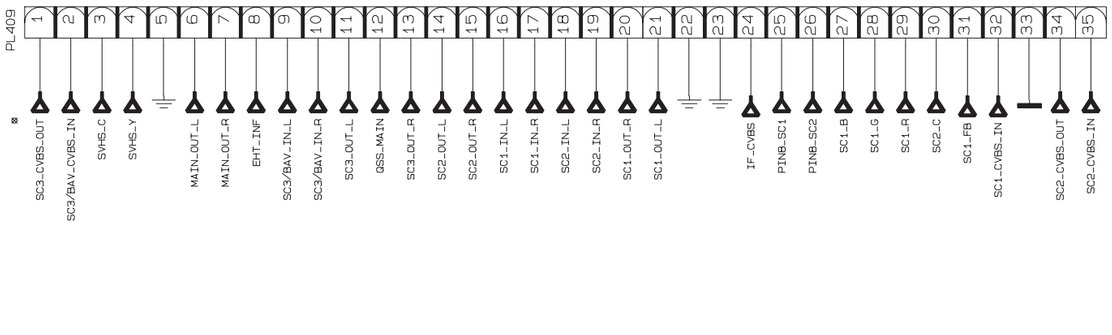
MAIN PWB ASS'Y (1/4)

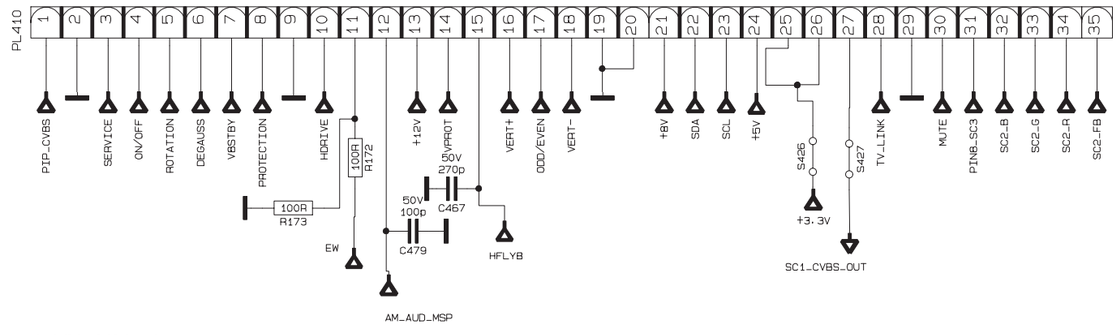
VE-20160399

MAIN PWB ASS'Y (2/4)

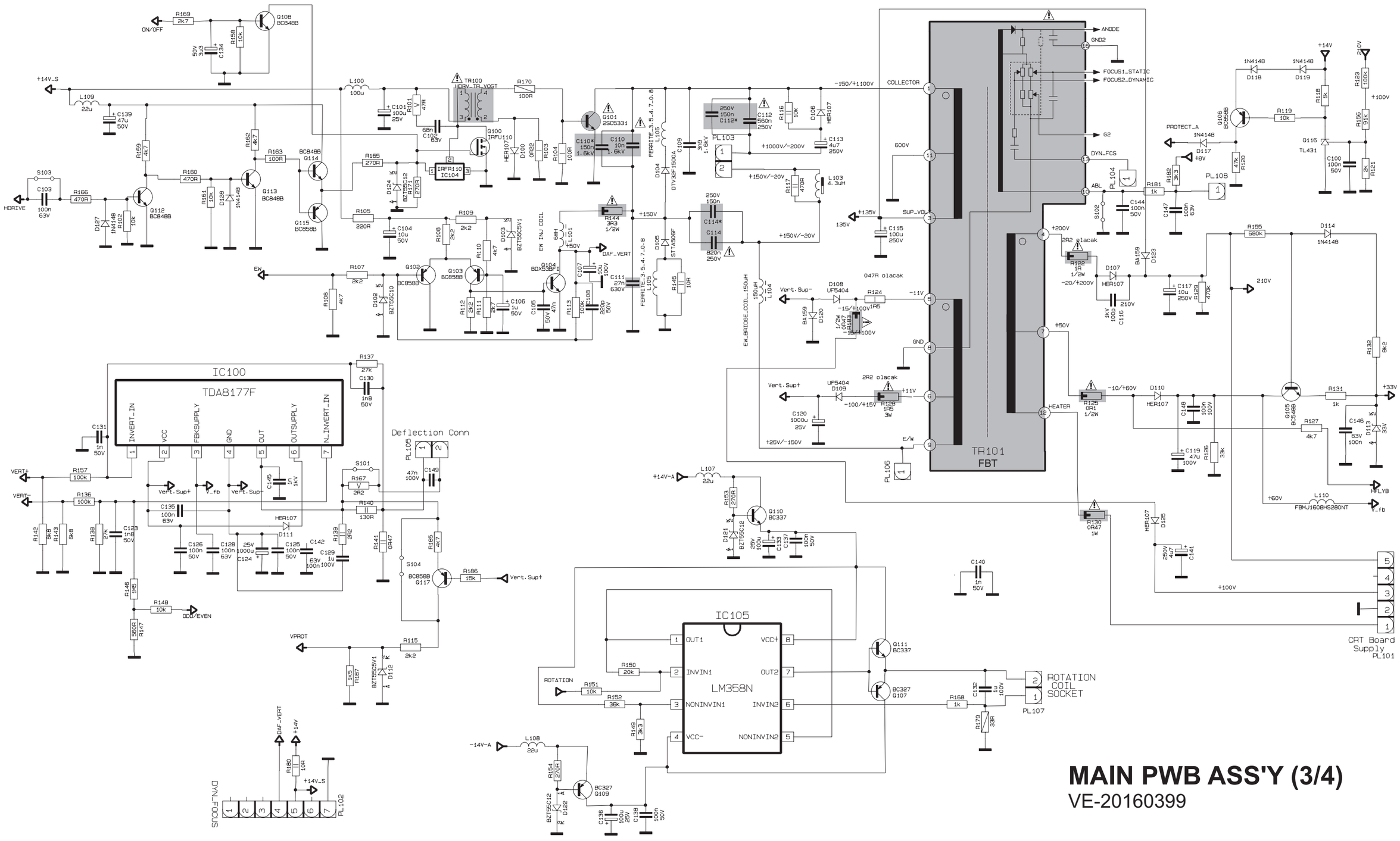
VE-20160399







MAIN PWB CIRCUIT DIAGRAM (3/4)

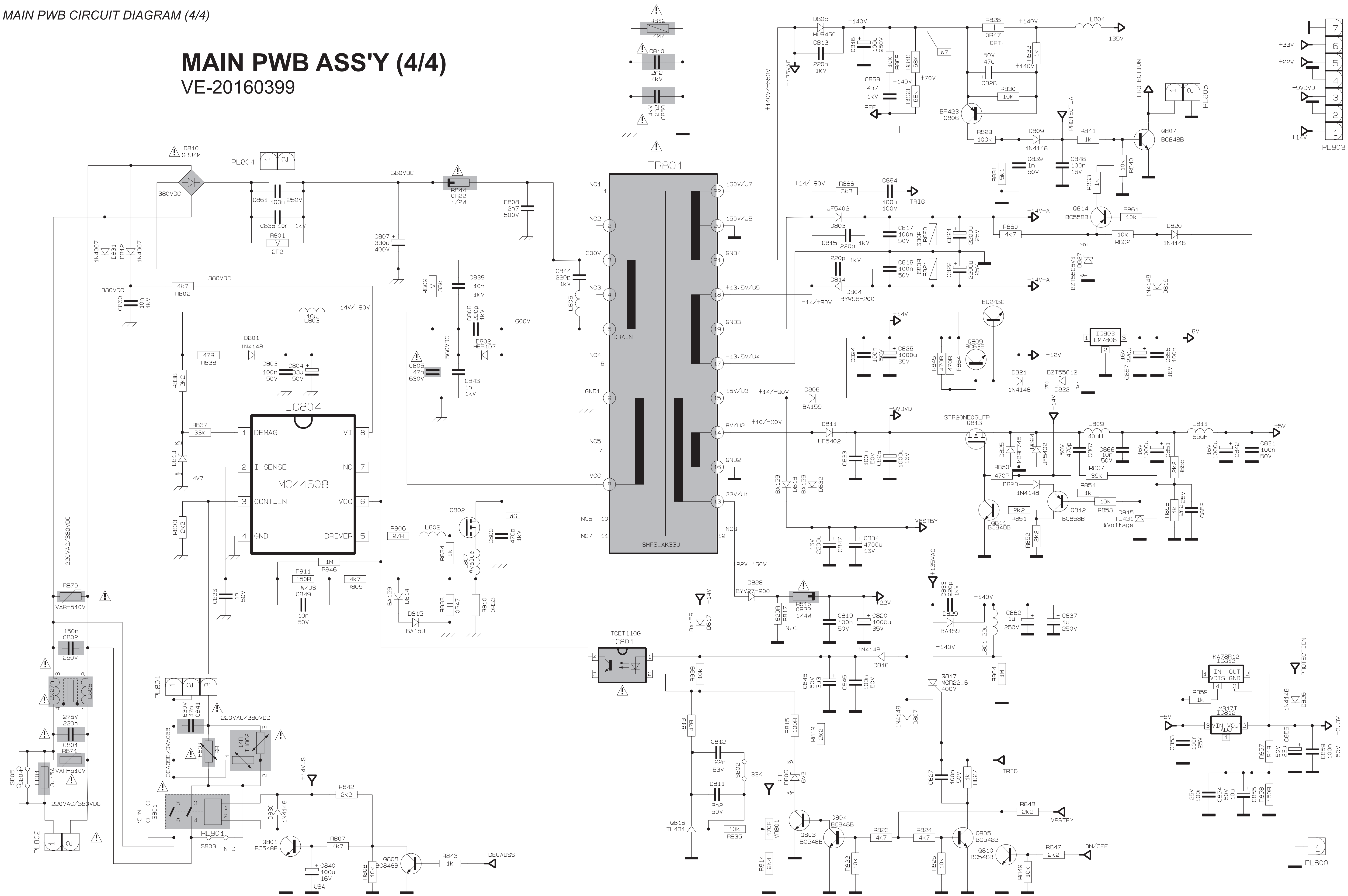


MAIN PWB ASS'Y (3/4)

VE-20160399

MAIN PWB ASS'Y (4/4)

VE-20160399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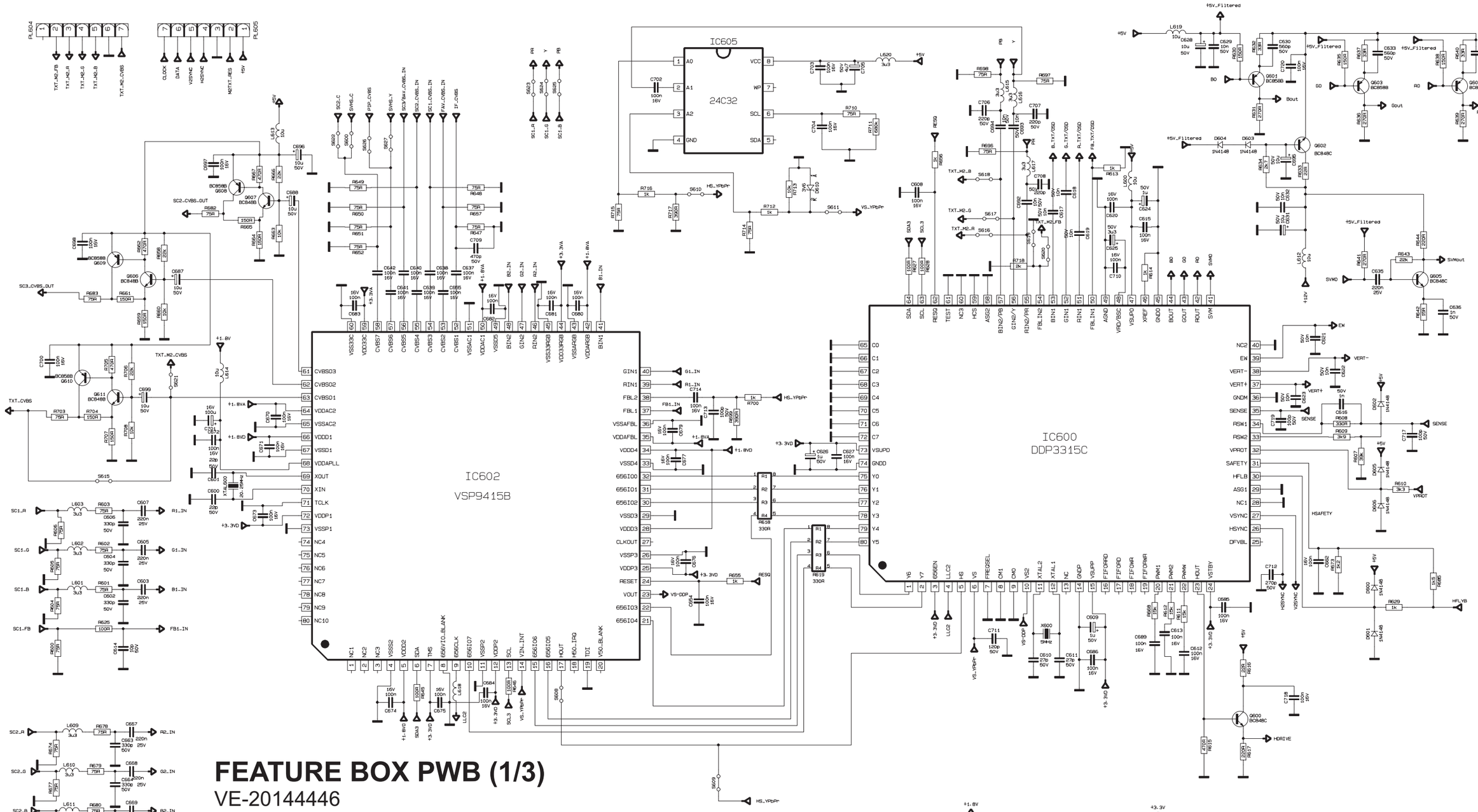
IC804
MC44608
DEMAG
I_SENSE
CONT_IN
GND
VI
NC
VCC
DRIVER
IC801
TCET110G
IC803
LM7808
IC812
LM317T
IC813
KA78R12
D810
GBU4M
PL804
PL801
PL802
PL803
PL805
PL800
RL801
R844
0R22
1/2W
R816
0R22
1/4W
R870
VAR-510V
R871
VAR-510V
F801
3.15A
L805
2x27m
C807
330u
400V
Q802
Q806
BF423
Q807
BC848B
Q813
STP20NE06LFP
Q817
MCR22_6
400V
Q809
BC639
BD243C
Q815
TL431
Q816
TL431
D805
MUR460
L804
L809
40uH
L811
65uH
380VDC
220VAC/380VDC
+140V
135V
+14V
+22V
+33V
+9VDVD
+8V
+12V
+5V
+3.3V
+14V-A
-14V-A
V8STBY
TRIG
REF
PROTECTION
PROTECT_A
DEGAUSS
ON/OFF
+135VAC

FEATURE BOX PWB CIRCUIT DIAGRAM (1/3)



FEATURE BOX PWB (1/3)

VE-20144446

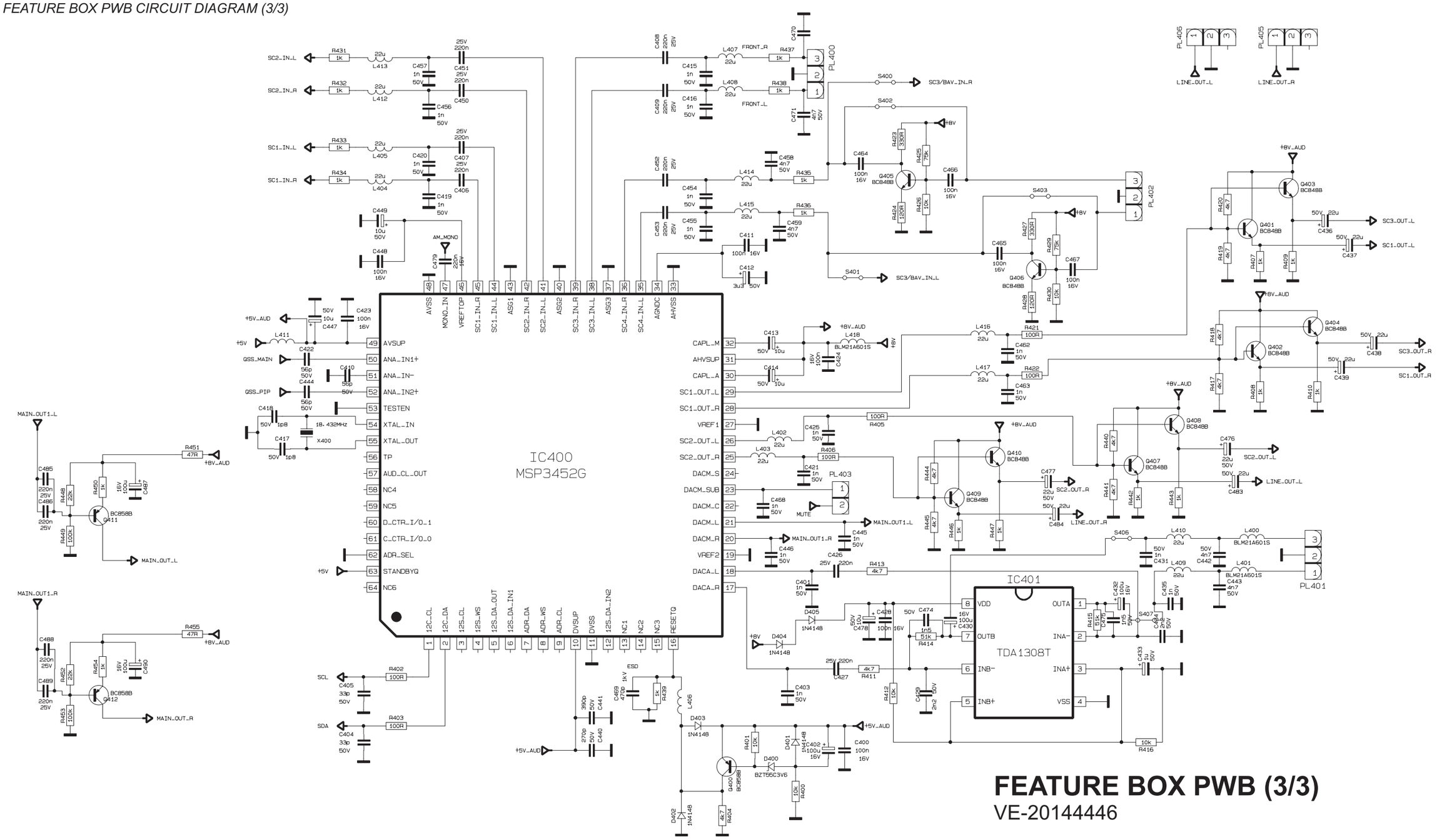
FEATURE BOX PWB (2/3)

VE-20144446

IC752

SDA5550M

FEATURE BOX PWB CIRCUIT DIAGRAM (3/3)

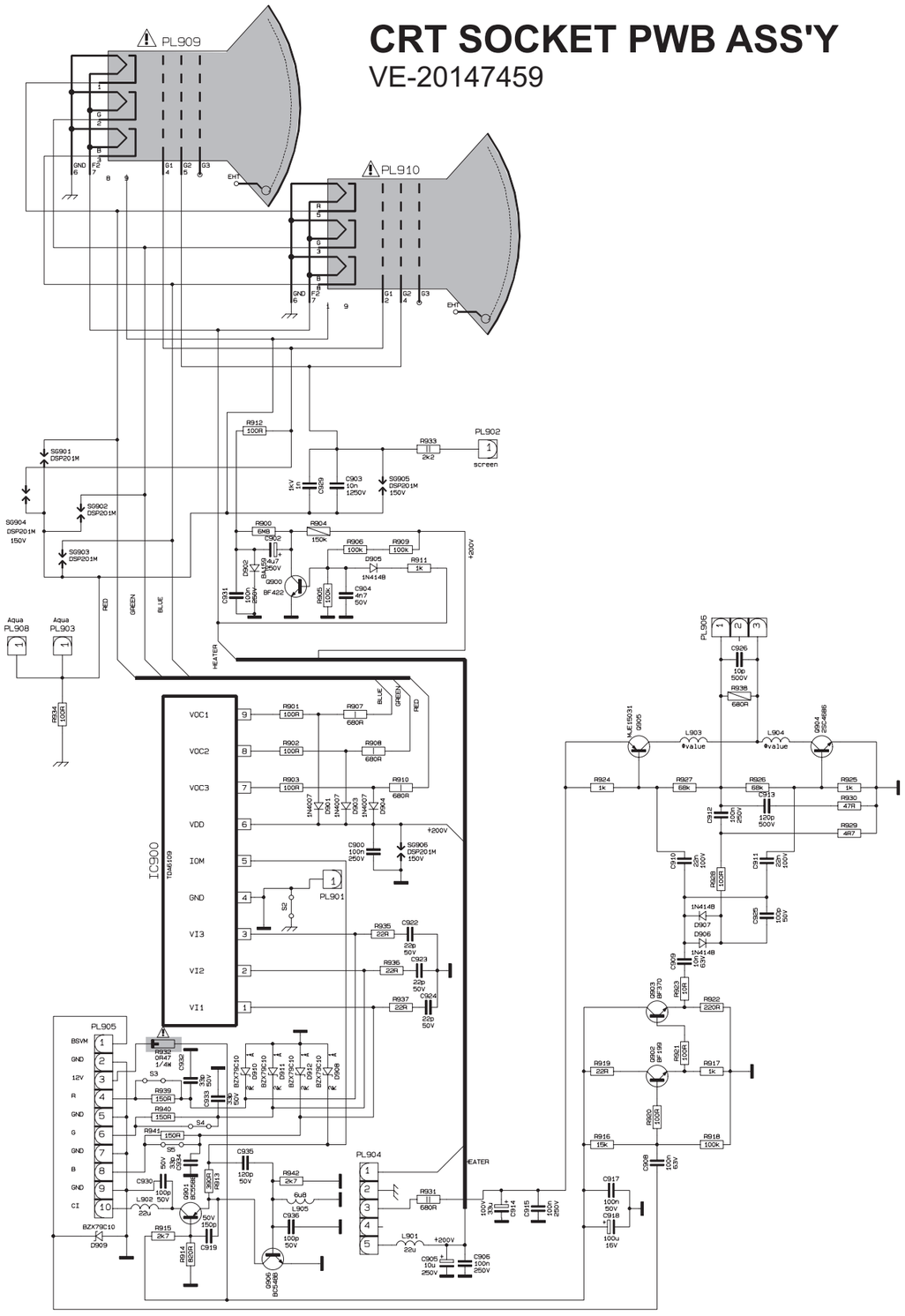


FEATURE BOX PWB (3/3)

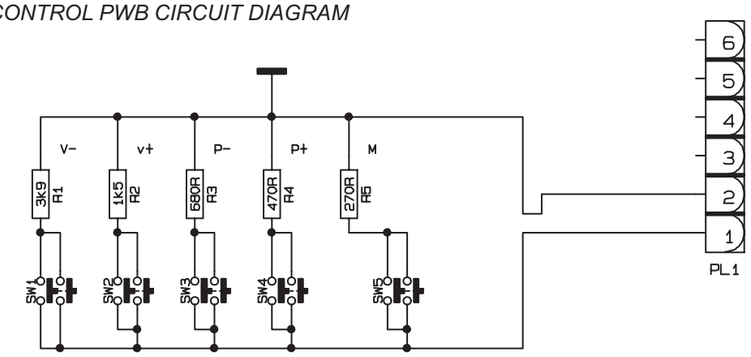
VE-20144446

CRT SOCKET PWB CIRCUIT DIAGRAM

CRT SOCKET PWB ASS'Y
VE-20147459

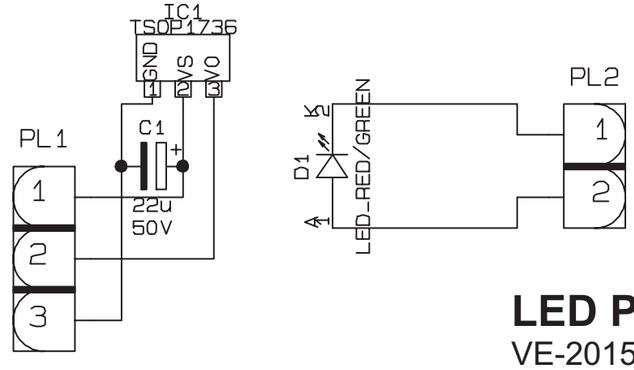


FRONT CONTROL PWB CIRCUIT DIAGRAM



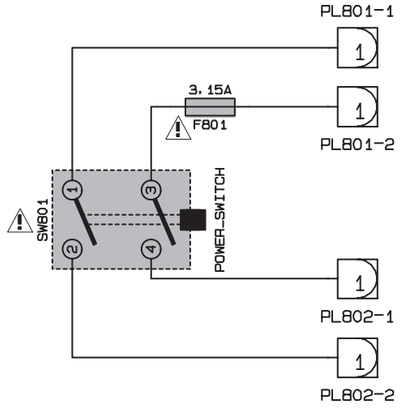
FRONT CONTROL PWB ASS'Y
VE-20167596

LED PWB CIRCUIT DIAGRAM



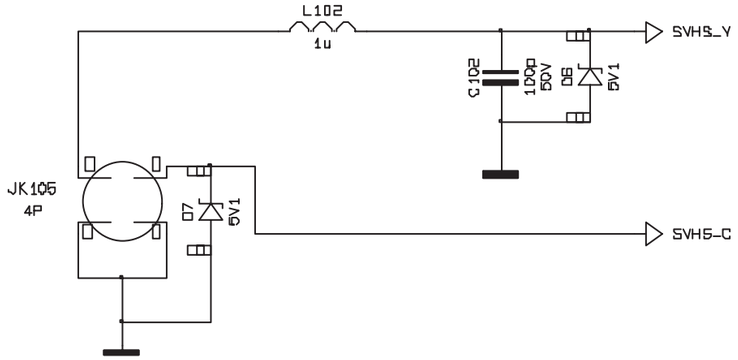
LED PWB ASS'Y
VE-20154915

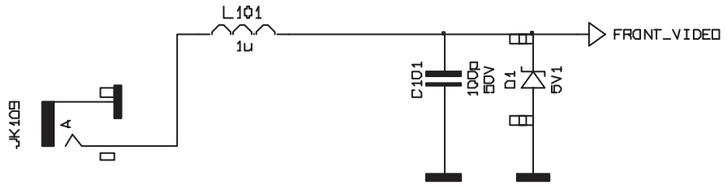
POWER SWITCH PWB CIRCUIT DIAGRAM

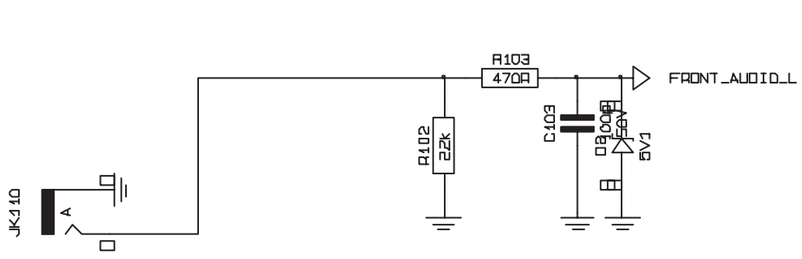


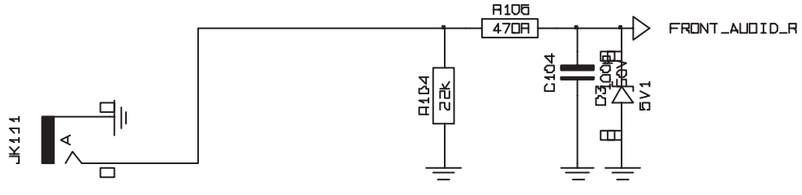
POWER SWITCH PWB ASS'Y
VE-20122229

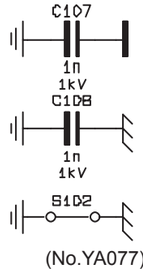
AV &HEADPHONE PWB CIRCUIT DIAGRAM

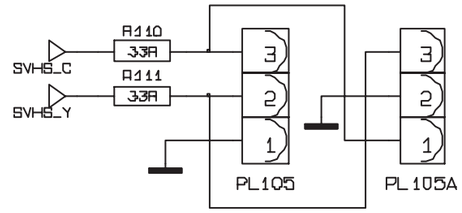


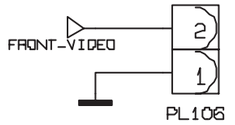


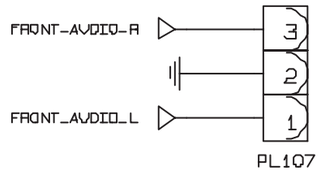


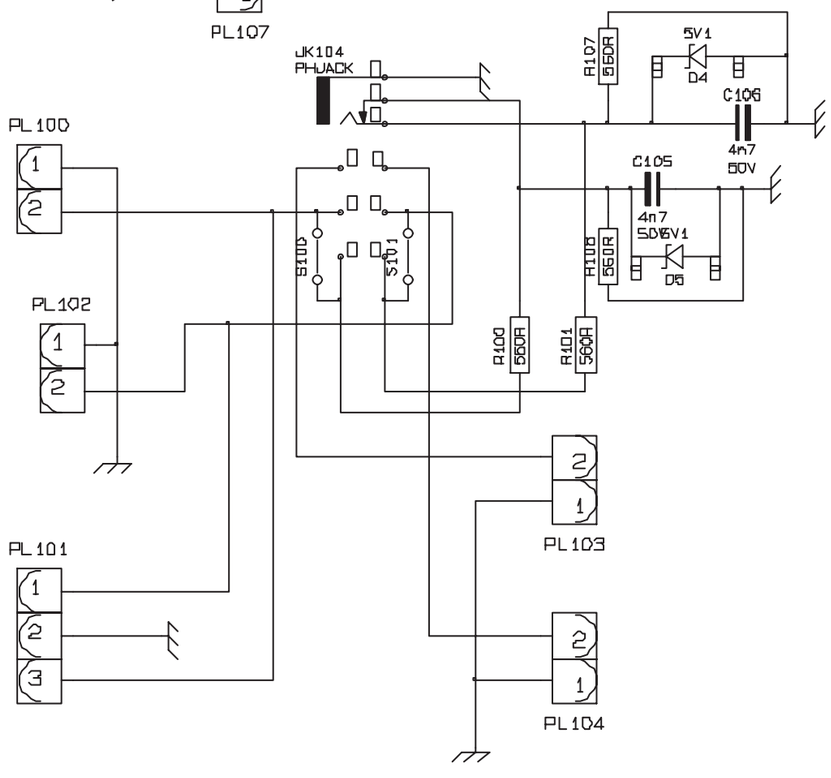












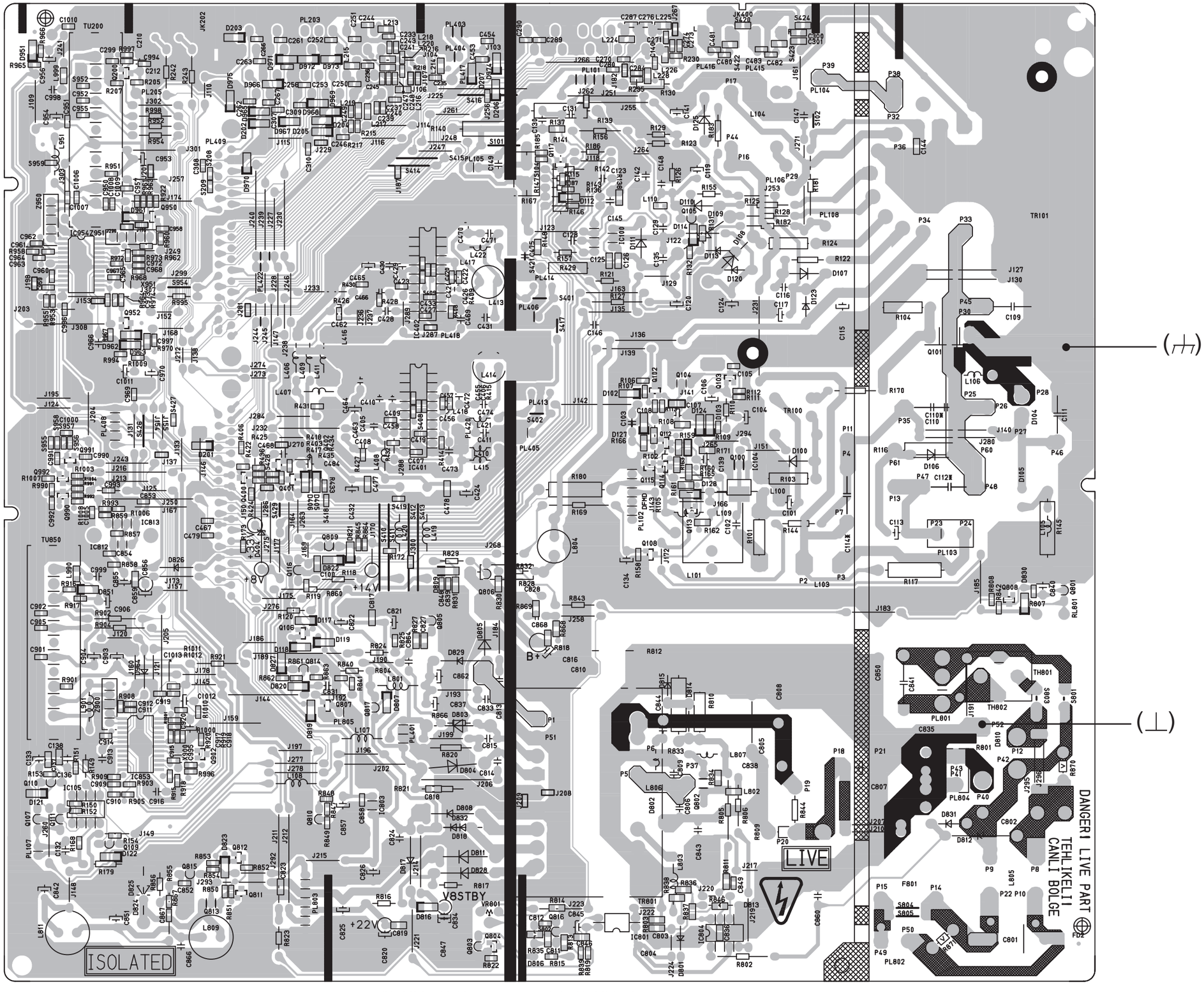
AV & HEADPHONE PWB ASS'Y

VE-20161117

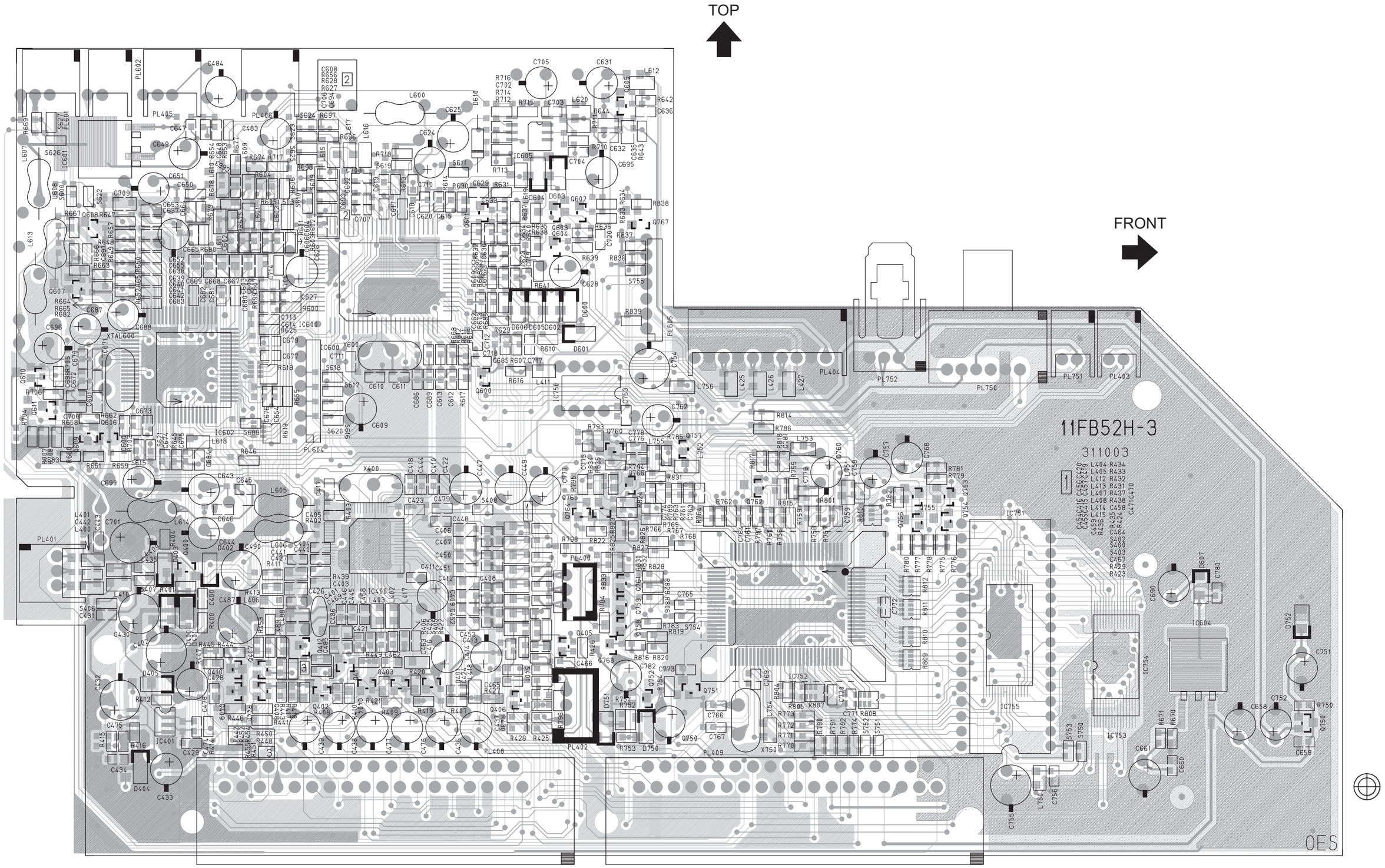
PATTERN DIAGRAMS

MAIN PWB PATTERN

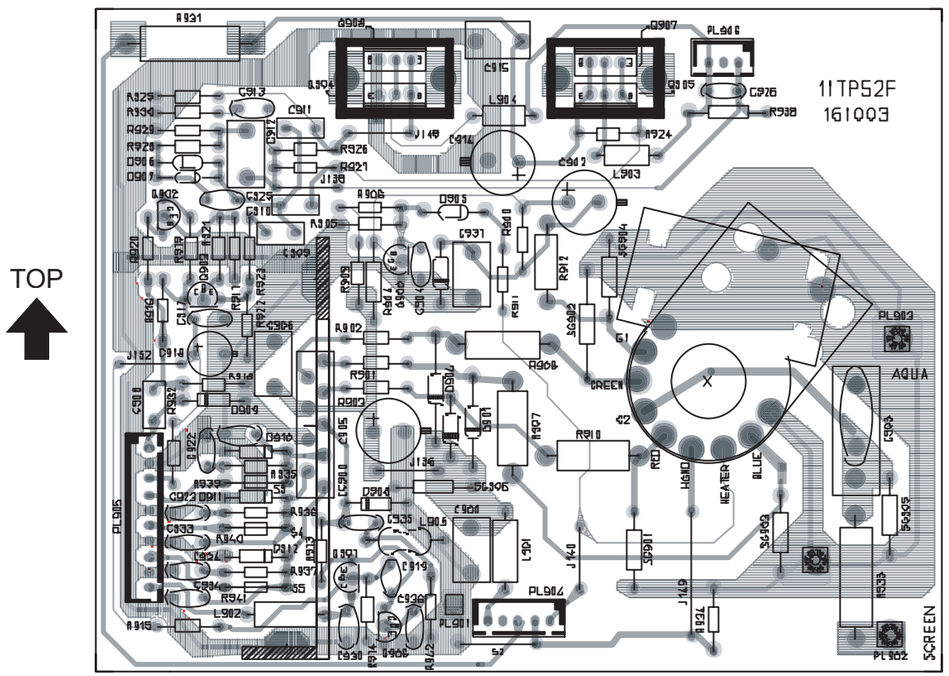
FRONT



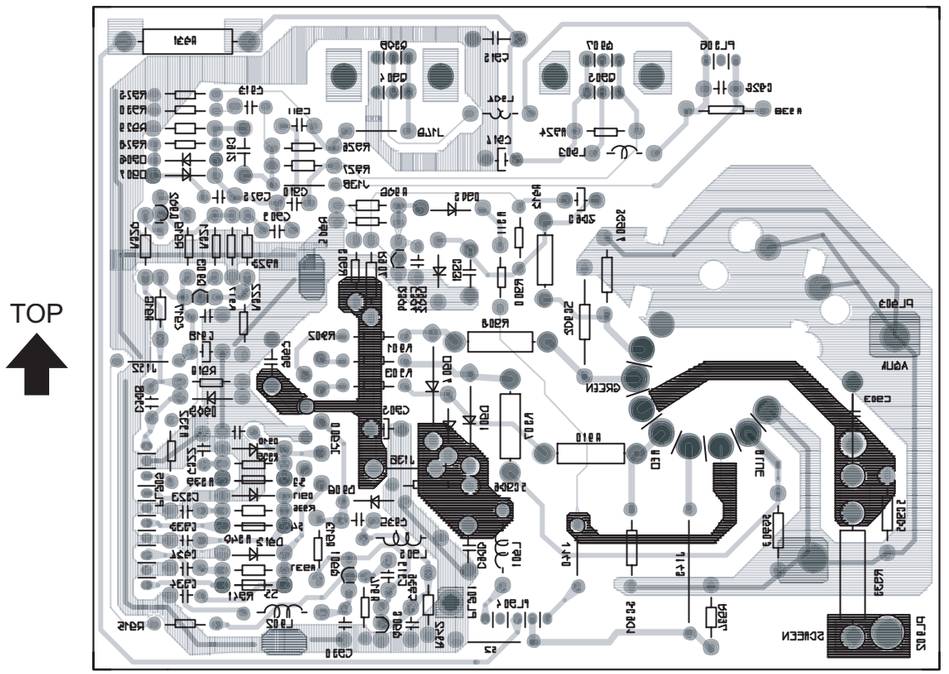
FEATURE BOX PWB PATTERN



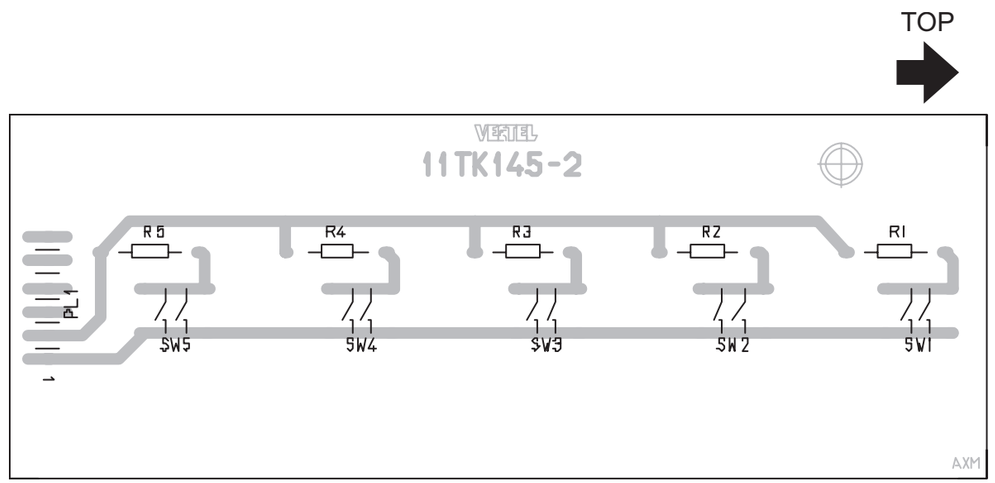
CRT SOCKET PWB PATTERN [SOLDER SIDE]



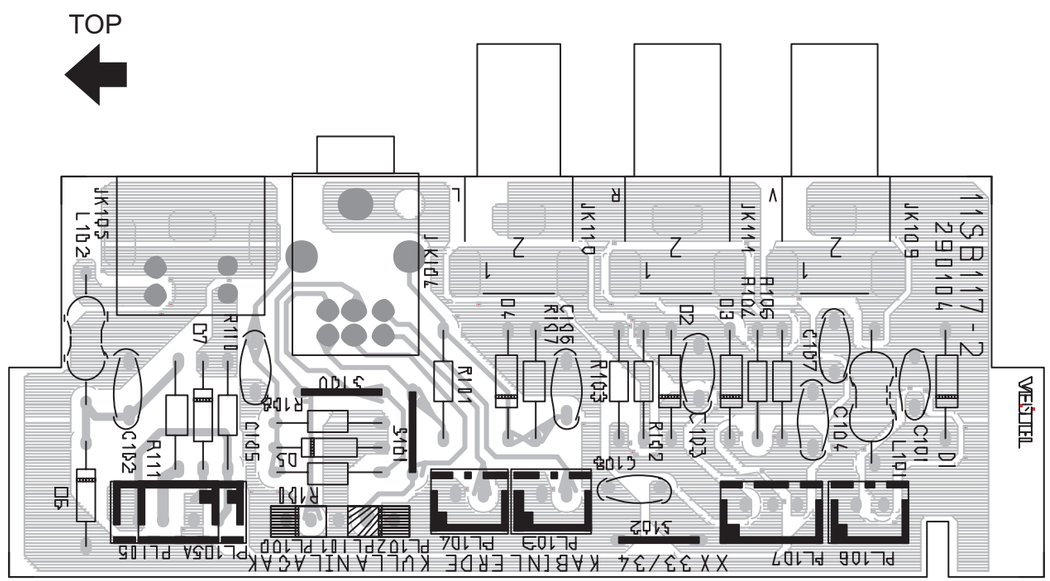
CRT SOCKET PWB PATTERN [PARTS SIDE]



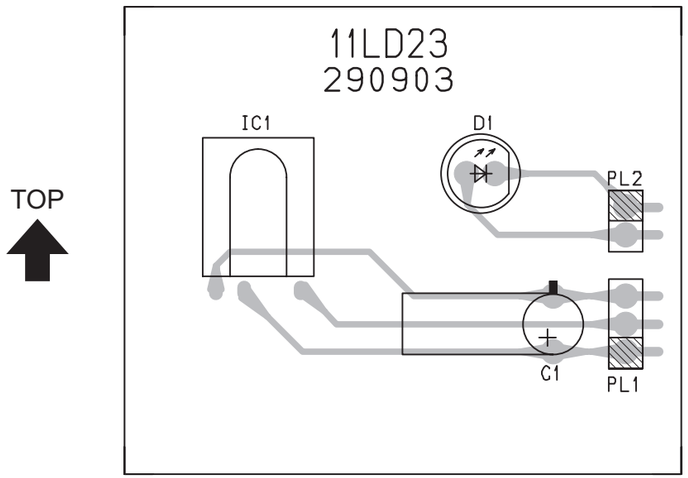
FRONT CONTROL PWB PATTERN



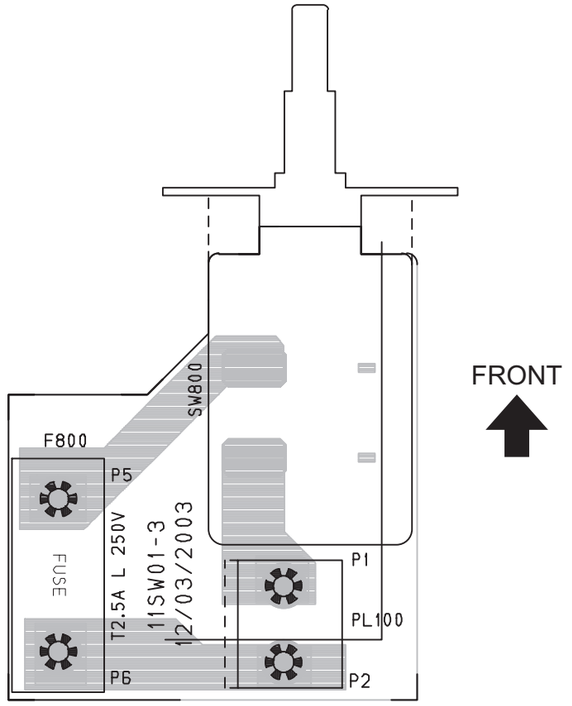
AV & HEAD PHONE PWB PATTERN



LED PWB PATTERN



POWER SWITCH PWB PATTERN



PARTS LIST

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USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	AV-28RH4BU AV-28RH4SU
MAIN PWB	VE-20160399
FEATURE BOX PWB	VE-20144446
CRT SOCKET PWB	VE-20147459
AV & HEADPHONE PWB	VE-20161117
POWER SWITCH PWB	VE-20122229
FRONT CONTROL PWB	VE-20167596
LED PWB	VE-20154915
REMOTE CONTROL UNIT	VE-30017763 (RM-C1100)

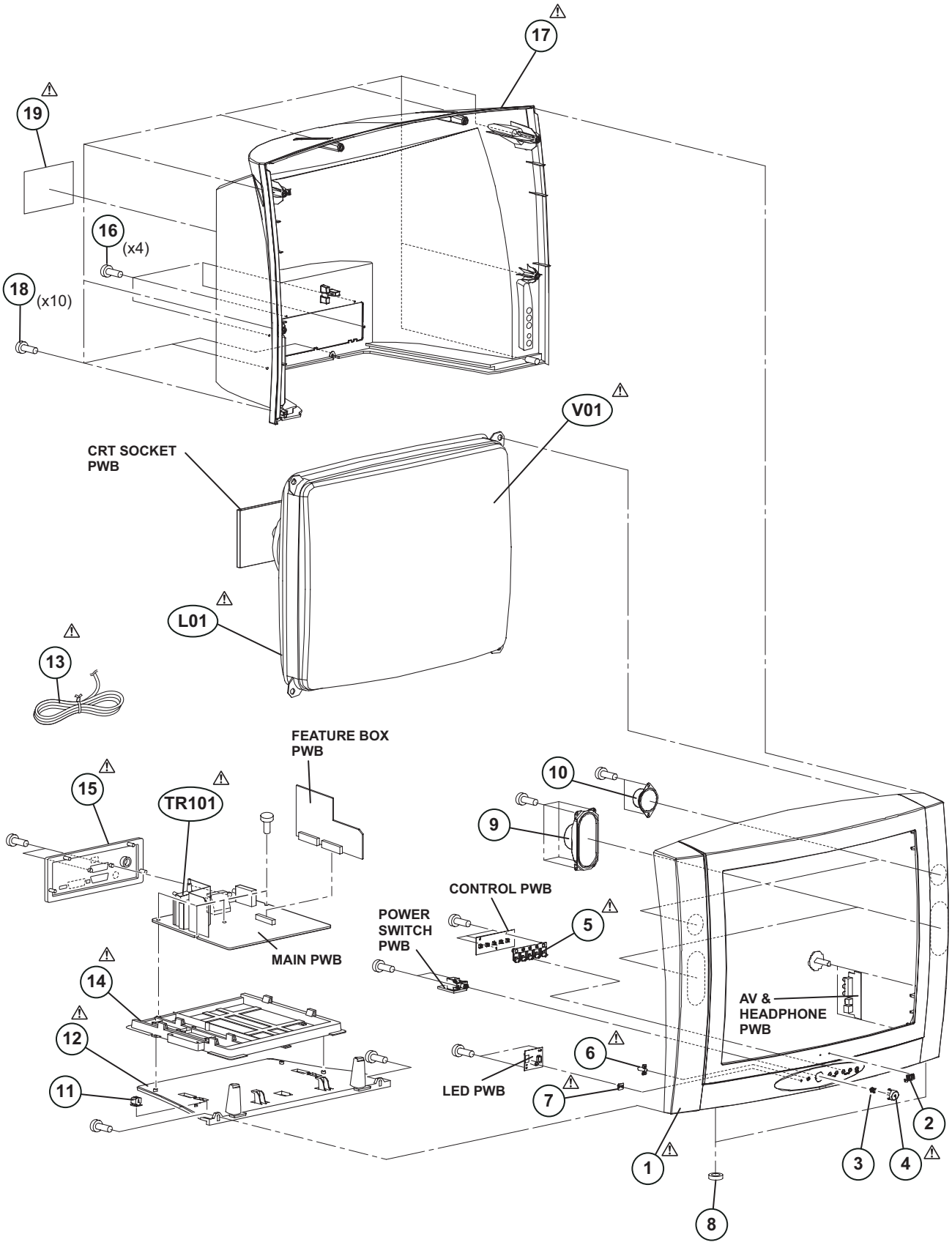
EXPLODED VIEW PARTS LIST [AV-28RH4BU]

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	VE-30002754	PICTURE TUBE(ITC)	Inc. DY, PC MAGNET	
⚠	L01	VE-30029994	DEG COIL&EARTH		
⚠	TR101	VE-30017521	TRF FBT	within MAIN PWB	
⚠	1	VE-20160977	FRONT CABINET		
	2	VE-40013592	LOGO JVC		
	3	VE-35000013	SPRING ON/OFF SWITCH		
⚠	4	VE-20144094	BUTTON ON/OFF		
⚠	5	VE-20144095	BUTTON FUNCTION		
⚠	6	VE-20128755	LENS PRE-AMP		
⚠	7	VE-20056446	LENS LED		
	8	VE-40000082	FOOT RUBBER	(x2)	
	9	VE-30024903	SPEAKER 8Ω 15W	(x2)	
	10	VE-30024912	TWEETER 8Ω 8W	(x2)	
	11	VE-20004520	CABLE HOLDER		
⚠	12	VE-20141523	BASE		
⚠	13	VE-30016513	POWER CORD		
⚠	14	VE-20090585	CHASSIS FRAME		
⚠	15	VE-20168677	BACK DOOR		
	16	VE-35008081	SCREW 3*9.5	(x4)	
⚠	17	VE-20144073	REAR COVER		
	18	VE-35004572	SCREW 4x20	(x10)	
⚠	19	VE-20160975	LABEL		

EXPLODED VIEW PARTS LIST [AV-28RH4SU]

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	VE-30002754	PICTURE TUBE(ITC)	Inc. DY, PC MAGNET	
⚠	L01	VE-30029994	DEG COIL&EARTH		
⚠	TR101	VE-30017521	TRF FBT	within MAIN PWB	
⚠	1	VE-20161093	FRONT CABINET		
	2	VE-40013593	LOGO JVC		
	3	VE-35000013	SPRING ON/OFF SWITCH		
⚠	4	VE-20160953	BUTTON ON/OFF		
⚠	5	VE-20160956	BUTTON FUNCTION		
⚠	6	VE-20128755	LENS PRE-AMP		
⚠	7	VE-20056446	LENS LED		
	8	VE-40000082	FOOT RUBBER	(x2)	
	9	VE-30024903	SPEAKER 8Ω 15W	(x2)	
	10	VE-30024912	TWEETER 8Ω 8W	(x2)	
	11	VE-20004520	CABLE HOLDER		
⚠	12	VE-20141523	BASE		
⚠	13	VE-30016513	POWER CORD		
⚠	14	VE-20090585	CHASSIS FRAME		
⚠	15	VE-20120043	BACK DOOR		
	16	VE-35008081	SCREW 3*9.5	(x4)	
⚠	17	VE-20160941	REAR COVER		
	18	VE-35010702	SCREW 4x20	(x10)	
⚠	19	VE-20160981	LABEL		

EXPLODED VIEW



PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (VE-20160399)

⚠Ref No.	Part No.	Part Name	Description Local
IC100	VE-30013687	IC	
IC401	VE-30018422	IC	
IC402	VE-30018422	IC	
⚠IC801	VE-30015087	IC	
IC803	VE-30001500	IC	
IC804	VE-30011968	IC	
IC812	VE-30019617	IC	
IC954	VE-30021083	IC	
Q116	VE-30023137	IC	
Q815	VE-30023137	IC	
Q816	VE-30023137	IC	
Q100	VE-30018627	TRANSISTOR	
⚠Q101	VE-30016686	TRANSISTOR	H.OUT
Q102	VE-30001458	TRANSISTOR	
Q103	VE-30001458	TRANSISTOR	
Q104	VE-30007799	TRANSISTOR	
Q105	VE-30001454	TRANSISTOR	
Q106	VE-30001458	TRANSISTOR	
Q108	VE-30001457	TRANSISTOR	
Q112	VE-30001457	TRANSISTOR	
Q113	VE-30001457	TRANSISTOR	
Q114	VE-30001457	TRANSISTOR	
Q115	VE-30001458	TRANSISTOR	
Q117	VE-30001458	TRANSISTOR	
Q200	VE-30001457	TRANSISTOR	
Q400	VE-30001458	TRANSISTOR	
Q801	VE-30001454	TRANSISTOR	
Q802	VE-30001386	TRANSISTOR	
Q803	VE-30001454	TRANSISTOR	
Q804	VE-30001457	TRANSISTOR	
Q805	VE-30001454	TRANSISTOR	
Q806	VE-30001428	TRANSISTOR	
Q807	VE-30001457	TRANSISTOR	
Q808	VE-30001457	TRANSISTOR	
Q809	VE-30001435	TRANSISTOR	
Q810	VE-30001454	TRANSISTOR	
Q811	VE-30001457	TRANSISTOR	
Q812	VE-30001458	TRANSISTOR	
Q813	VE-30007802	TRANSISTOR	
Q814	VE-30001455	TRANSISTOR	
Q817	VE-30001384	TRANSISTOR	
Q950	VE-30001457	TRANSISTOR	
Q952	VE-30001457	TRANSISTOR	
D100	VE-30001291	DIODE	
D102	VE-30007760	ZENER DIODE	
D103	VE-30007763	ZENER DIODE	
D104	VE-30007678	DIODE	
D105	VE-30007768	DIODE	
D106	VE-30001291	DIODE	
D107	VE-30001291	DIODE	
D108	VE-30001299	DIODE	
D109	VE-30001299	DIODE	
D110	VE-30001291	DIODE	
D111	VE-30001288	DOIDE	
D112	VE-30007763	ZENER DIODE	
D113	VE-30001377	ZENER DIODE	
D114	VE-30001285	DIODE	
D117	VE-30001285	DIODE	
D118	VE-30001285	DIODE	
D119	VE-30001285	DIODE	
D120	VE-30001318	DIODE	
D123	VE-30001318	DIODE	
D124	VE-30009699	ZENER DIODE	
D127	VE-30001285	DIODE	
D128	VE-30001285	DIODE	
D201	VE-30007763	ZENER DIODE	
D202	VE-30009699	ZENER DIODE	
D203	VE-30009699	ZENER DIODE	
D204	VE-30018735	ZENER DIODE	
D205	VE-30018735	ZENER DIODE	
D404	VE-30001284	DIODE	
D801	VE-30001318	DIODE	
D802	VE-30001323	DIODE	
D803	VE-30009366	DIODE	
D804	VE-30009366	DIODE	
D805	VE-30007681	DIODE	
D806	VE-30001344	ZENER DIODE	
D807	VE-30001285	DIODE	
D808	VE-30001288	DOIDE	
D809	VE-30001285	DIODE	
⚠D810	VE-20108354	BRIDGE DIODE	
D811	VE-30009366	DIODE	
D812	VE-30001329	DIODE	
D813	VE-30006691	ZENER DIODE	
D814	VE-30001318	DIODE	
D815	VE-30001318	DIODE	
D818	VE-30001318	DIODE	
D819	VE-30001285	DIODE	
D820	VE-30001285	DIODE	
D821	VE-30001285	DIODE	
D822	VE-30009699	ZENER DIODE	
D823	VE-30001285	DIODE	
D824	VE-30009366	DIODE	
D826	VE-30001284	DIODE	
D827	VE-30007763	ZENER DIODE	
D829	VE-30001318	DIODE	
D830	VE-30001285	DIODE	
D831	VE-30001329	DIODE	
D951	VE-30001285	DIODE	
D961	VE-30012411	DIODE	
D962	VE-30001285	DIODE	
D963	VE-30001285	DIODE	
C100	VE-30000294	SMD CAPACITOR	100NF 50V K
C1006	VE-30012581	SMD CAPACITOR	1NF 50V K R
C1007	VE-30012581	SMD CAPACITOR	1NF 50V K R
C101	VE-30000353	EL CAPACITOR	100UF 25V M
C1011	VE-30000352	EL CAPACITOR	100UF 16V M
C102	VE-30010517	MKT CAPACITOR	33NF 100V K
C104	VE-30000345	EL CAPACITOR	10UF 50V M
C105	VE-30012590	SMD CAPACITOR	47NF 50V K
C106	VE-30000362	EL CAPACITOR	1UF 50V M
C107	VE-30000346	EL CAPACITOR	10UF 100V M
C108	VE-30012567	SMD CAPACITOR	220PF 50V J
⚠C109	VE-30023626	MKP CAPACITOR	3.9NF 2000V J
⚠C110	VE-30031710	MKP CAPACITOR	9.1NF 2000V %3.5
⚠C111	VE-30000121	MKP CAPACITOR	27NF 630V J
⚠C112	VE-30000167	MKP CAPACITOR	560NF 250V J
C113	VE-30000415	EL CAPACITOR	4.7UF 250V M
⚠C114	VE-30013003	MKP CAPACITOR	1UF 250V J
C115	VE-30006909	EL CAPACITOR	100UF M 250V
C116	VE-30000431	CER CAPACITOR	100PF 1KV M
C117	VE-30000350	EL CAPACITOR	10UF 250V M
C119	VE-30000402	EL CAPACITOR	47UF 100V M
C120	VE-30000360	EL CAPACITOR	1000UF 25V M
C123	VE-30000302	CER CAPACITOR	1.8NF 50V KB
C124	VE-30000360	EL CAPACITOR	1000UF 25V M
C125	VE-30000294	SMD CAPACITOR	100NF 50V K
C126	VE-30000294	SMD CAPACITOR	100NF 50V K
C128	VE-30000296	CER CAPACITOR	100NF 100V Z F
C129	VE-30000078	MKT CAPACITOR	1UF 100V M
C130	VE-30000302	CER CAPACITOR	1.8NF 50V KB
C131	VE-30000283	CER CAPACITOR	1NF 50V K B
C134	VE-30000393	EL CAPACITOR	3.3UF 50V M
C135	VE-30019641	MKT CAPACITOR	100NF 100V J
C139	VE-30000400	EL CAPACITOR	47UF 50V M
C140	VE-30012581	SMD CAPACITOR	1NF 50V K R
C142	VE-30019641	MKT CAPACITOR	100NF 100V J
C145	VE-30000286	CER CAPACITOR	1NF 500V K B
C146	VE-30000296	CER CAPACITOR	100NF 100V Z F
C148	VE-30000296	CER CAPACITOR	100NF 100V Z F
C210	VE-30000345	EL CAPACITOR	10UF 50V M
C212	VE-30016654	SMD CAPACITOR	100NF 16V K R
C233	VE-30012592	SMD CAPACITOR	6.8NF 50V K
C235	VE-30012592	SMD CAPACITOR	6.8NF 50V K
C236	VE-30012592	SMD CAPACITOR	6.8NF 50V K
C237	VE-30012592	SMD CAPACITOR	6.8NF 50V K
C239	VE-30012607	SMD CAPACITOR	150PF 50V J
C240	VE-30012581	SMD CAPACITOR	1NF 50V K R
C241	VE-30012607	SMD CAPACITOR	150PF 50V J
C243	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C244	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C245	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C246	VE-30012607	SMD CAPACITOR	150PF 50V J
C247	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C248	VE-30012607	SMD CAPACITOR	150PF 50V J
C249	VE-30012581	SMD CAPACITOR	1NF 50V K R
C250	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C251	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C252	VE-30012607	SMD CAPACITOR	150PF 50V J

⚠Ref No.	Part No.	Part Name	Description Local
C253	VE-30012607	SMD CAPACITOR	150PF 50V J
C256	VE-30012607	SMD CAPACITOR	150PF 50V J
C261	VE-30012607	SMD CAPACITOR	150PF 50V J
C262	VE-30012607	SMD CAPACITOR	150PF 50V J
C263	VE-30012607	SMD CAPACITOR	150PF 50V J
C266	VE-30012607	SMD CAPACITOR	150PF 50V J
C267	VE-30012607	SMD CAPACITOR	150PF 50V J
C301	VE-30000284	SMD CAPACITOR	1NF 50V K R
C307	VE-30012607	SMD CAPACITOR	150PF 50V J
C308	VE-30012607	SMD CAPACITOR	150PF 50V J
C309	VE-30012607	SMD CAPACITOR	150PF 50V J
C310	VE-30012607	SMD CAPACITOR	150PF 50V J
C405	VE-30000071	MKT CAPACITOR	10NF 63V J
C406	VE-30012568	SMD CAPACITOR	270PF 50V J
C407	VE-30012585	SMD CAPACITOR	2.2NF 50V K R
C408	VE-30000100	MKT CAPACITOR	330NF 63V J
C409	VE-30000295	CER CAPACITOR	100NF 50V Z F
C410	VE-30000295	CER CAPACITOR	100NF 50V Z F
C411	VE-30000100	MKT CAPACITOR	330NF 63V J
C419	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C420	VE-30012603	SMD CAPACITOR	100NF 25V K R
C421	VE-30012603	SMD CAPACITOR	100NF 25V K R
C423	VE-30012603	SMD CAPACITOR	100NF 25V K R
C424	VE-30000383	EL CAPACITOR	2200UF 25V M
C426	VE-30012568	SMD CAPACITOR	270PF 50V J
C427	VE-30012585	SMD CAPACITOR	2.2NF 50V K R
C428	VE-30000100	MKT CAPACITOR	330NF 63V J
C429	VE-30000295	CER CAPACITOR	100NF 50V Z F
C430	VE-30000295	CER CAPACITOR	100NF 50V Z F
C431	VE-30000100	MKT CAPACITOR	330NF 63V J
C432	VE-30000383	EL CAPACITOR	2200UF 25V M
C433	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C455	VE-30012603	SMD CAPACITOR	100NF 25V K R
C456	VE-30012603	SMD CAPACITOR	100NF 25V K R
C458	VE-30012603	SMD CAPACITOR	100NF 25V K R
C462	VE-30000353	EL CAPACITOR	100UF 25V M
C463	VE-30000353	EL CAPACITOR	100UF 25V M
C464	VE-30000353	EL CAPACITOR	100UF 25V M
C465	VE-30000353	EL CAPACITOR	100UF 25V M
C466	VE-30000071	MKT CAPACITOR	10NF 63V J
C467	VE-30012560	SMD CAPACITOR	100PF 50V J
C468	VE-30000352	EL CAPACITOR	100UF 16V M
C469	VE-30000069	MKT CAPACITOR	1NF 100V J
C470	VE-30000069	MKT CAPACITOR	1NF 100V J
C472	VE-30000069	MKT CAPACITOR	1NF 100V J
C473	VE-30000069	MKT CAPACITOR	1NF 100V J
⚠C801	VE-30000094	MKT CAPACITOR	220NF 275V M AC
⚠C802	VE-30000094	MKT CAPACITOR	220NF 275V M AC
C803	VE-30000294	SMD CAPACITOR	100NF 50V K
C804	VE-30000387	EL CAPACITOR	33UF 50V M
⚠C805	VE-30000161	MKP CAPACITOR	47NF 630VJ
C806	VE-30007308	CER CAPACITOR	220PF 1KV K
C807	VE-30000421	EL CAPACITOR	220UF 400V M
C808	VE-30000319	CER CAPACITOR	2.7NF 500V K B
C809	VE-30009208	CER CAPACITOR	470PF 1KV K
⚠C810	VE-30000440	CER CAPACITOR	2.2NF 4KV M
C811	VE-30000309	SMD CAPACITOR	2.2NF 50V K R
C812	VE-30000099	MKT CAPACITOR	33NF 63V J
C813	VE-30007308	CER CAPACITOR	220PF 1KV K
C814	VE-30007308	CER CAPACITOR	220PF 1KV K
C815	VE-30007308	CER CAPACITOR	220PF 1KV K
C816	VE-30006909	EL CAPACITOR	100UF M 250V
C817	VE-30000294	SMD CAPACITOR	100NF 50V K
C818	VE-30000294	SMD CAPACITOR	100NF 50V K
C821	VE-30000383	EL CAPACITOR	2200UF 25V M
C822	VE-30000383	EL CAPACITOR	2200UF 25V M
C823	VE-30000294	SMD CAPACITOR	100NF 50V K
C824	VE-30000295	CER CAPACITOR	100NF 50V Z F
C825	VE-30000360	EL CAPACITOR	1000UF 25V M
C826	VE-30000360	EL CAPACITOR	1000UF 25V M
C827	VE-30000294	SMD CAPACITOR	100NF 50V K
C828	VE-30000400	EL CAPACITOR	47UF 50V M
C831	VE-30000295	CER CAPACITOR	100NF 50V Z F
C834	VE-30000411	EL CAPACITOR	4700UF 16V M
C837	VE-30000367	EL CAPACITOR	1UF 250V M
C839	VE-30012581	SMD CAPACITOR	1NF 50V K R
C840	VE-30000352	EL CAPACITOR	100UF 16V M
C842	VE-30000360	EL CAPACITOR	1000UF 25V M
C843	VE-30000433	CER CAPACITOR	1NF 1KV M B
C845	VE-30000393	EL CAPACITOR	3.3UF 50V M
C846	VE-30000294	SMD CAPACITOR	100NF 50V K
C848	VE-30016654	SMD CAPACITOR	100NF 16V K R
⚠C850	VE-30000440	CER CAPACITOR	2.2NF 4KV M
C851	VE-30000360	EL CAPACITOR	1000UF 25V M
C852	VE-30012567	SMD CAPACITOR	220PF 50V J
C853	VE-30012603	SMD CAPACITOR	100NF 25V K R
C856	VE-30000352	EL CAPACITOR	100UF 16V M

⚠Ref No.	Part No.	Part Name	Description Local
C857	VE-30000375	EL CAPACITOR	220UF 16V M
C858	VE-30016654	SMD CAPACITOR	100NF 16V K R
C859	VE-30000294	SMD CAPACITOR	100NF 50V K
C861	VE-30000075	MKT CAPACITOR	100NF 250V K (DC)
C862	VE-30000367	EL CAPACITOR	1UF 250V M
C864	VE-30000190	CER CAPACITOR	100PF 50V J CH
C867	VE-30012574	SMD CAPACITOR	470PF 50V J
C950	VE-30012560	SMD CAPACITOR	100PF 50V J
C951	VE-30012603	SMD CAPACITOR	100NF 25V K R
C952	VE-30012569	SMD CAPACITOR	33PF 50V J
C953	VE-30000345	EL CAPACITOR	10UF 50V M
C954	VE-30000345	EL CAPACITOR	10UF 50V M
C955	VE-30012569	SMD CAPACITOR	33PF 50V J
C956	VE-30000400	EL CAPACITOR	47UF 50V M
C958	VE-30012603	SMD CAPACITOR	100NF 25V K R
C959	VE-30012569	SMD CAPACITOR	33PF 50V J
C960	VE-30012569	SMD CAPACITOR	33PF 50V J
C961	VE-30012582	SMD CAPACITOR	10NF 50V K R
C962	VE-30012572	SMD CAPACITOR	390PF 50V J
C963	VE-30000109	MKT CAPACITOR	470NF 63V J
C964	VE-30012610	SMD CAPACITOR	10NF 50V J
C965	VE-30012566	SMD CAPACITOR	22PF 50V J
C966	VE-30000109	MKT CAPACITOR	470NF 63V J
C967	VE-30016126	SMD CAPACITOR	220NF 16V K R
C968	VE-30012583	SMD CAPACITOR	1.5NF 50V K
C969	VE-30012582	SMD CAPACITOR	10NF 50V K R
C970	VE-30000345	EL CAPACITOR	10UF 50V M
C972	VE-30012603	SMD CAPACITOR	100NF 25V K R
C994	VE-30012581	SMD CAPACITOR	1NF 50V K R
C996	VE-30016126	SMD CAPACITOR	220NF 16V K R
⚠R870	VE-30018085	VAR CAPACITOR	510V K
⚠R871	VE-30018085	VAR CAPACITOR	510V K
R101	VE-30024655	MO RESISTOR	3W 150R J
R102	VE-30000529	SMD RESISTOR	1/10W 1.5K J
R103	VE-30001132	MO RESISTOR	2W 0.22R J
R104	VE-30001079	MO RESISTOR	1W 100R J
R105	VE-30000583	CF RESISTOR	1/4W 220R J
R106	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R107	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R108	VE-30000593	SMD RESISTOR	1/10W 2.2K J
R109	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R110	VE-30000718	CF RESISTOR	1/4W 4.7K J
R111	VE-30012662	SMD RESISTOR	1/16W 2.7K J
R112	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R113	VE-30012509	SMD RESISTOR	1/16W 100K J
R115	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R116	VE-30001086	MO RESISTOR	2W 10K J
R117	VE-30001168	MO RESISTOR	2W 470RJ
R118	VE-30000466	CF RESISTOR	1/4W 1K J
R119	VE-30012641	SMD RESISTOR	1/16W 10K J
R120	VE-30012696	SMD RESISTOR	1/16W 47K J
R121	VE-30000918	MF RESISTOR	1/4W 2.1K F
⚠R122	VE-30007783	FUSE RESISTOR	1/4W 2.2R J
R123	VE-30001036	MF RESISTOR	1/4W 95K F
⚠R124	VE-30001244	FUSE RESISTOR	1/2W 0.47R J
⚠R125	VE-30009036	FUSE RESISTOR	1/2W 0.1R J
R126	VE-30000564	CF RESISTOR	1/4W 18K J
R127	VE-30000718	CF RESISTOR	1/4W 4.7K J
⚠R128	VE-30001217	FUSE RESISTOR	2W 1.2R J
R129	VE-30000729	CF RESISTOR	1/4W 470K J
⚠R130	VE-30002828	FUSE RESISTOR	1W 0.75R J
R131	VE-30000631	SMD RESISTOR	1/10W 2.7K J
R132	VE-30012712	SMD RESISTOR	1/16W 8.2K J
R136	VE-30000477	CF RESISTOR	1/4W 100K J
R137	VE-30007789	SMD RESISTOR	1/10W 27K F
R138	VE-30000636	SMD RESISTOR	1/10W 27K J
R139	VE-30001110	MO RESISTOR	1W 1.5R J
R140	VE-30001124	MO RESISTOR	3W 220R J
R141	VE-30001174	MO RESISTOR	2W 0.47R J
R142	VE-30001011	MF RESISTOR	1/4W 6.8K F
R143	VE-30001011	MF RESISTOR	1/4W 6.8K F
R145	VE-30001077	MO RESISTOR	2W 10R J
R146	VE-30000541	CF RESISTOR	1/4W 1.5M J
R147	VE-30000744	CF RESISTOR	1/4W 560R J
R148	VE-30000475	SMD RESISTOR	1/10W 10K J
R155	VE-30000784	CF RESISTOR	1/4W 680K J
R156	VE-30001036	MF RESISTOR	1/4W 95K F
R157	VE-30000477	CF RESISTOR	1/4W 100K J
R158	VE-30012641	SMD RESISTOR	1/16W 10K J
R159	VE-30000721	SMD RESISTOR	1/10W 4.7K J
R160	VE-30000721	SMD RESISTOR	1/10W 4.7K J
R161	VE-30000475	SMD RESISTOR	1/10W 10K J
R162	VE-30000721	SMD RESISTOR	1/10W 4.7K J
R163	VE-30010560	SMD CAPACITOR	220NF 25V K R
R165	VE-30000622	CF RESISTOR	1/4W 270R J
R166	VE-30000529	SMD RESISTOR	1/10W 1.5K J

⚠Ref No.	Part No.	Part Name	Description Local
R169	VE-30000572	CF RESISTOR	1/4W 2K J
R171	VE-30000626	SMD RESISTOR	1/10W 270R J
R180	VE-30001077	MO RESISTOR	2W 10R J
R185	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R186	VE-30000531	CF RESISTOR	1/4W 15K J
R187	VE-30012506	SMD RESISTOR	1/16W 1.5K J
R205	VE-30014022	SMD RESISTOR	1/16W 47R J
R207	VE-30014420	SMD RESISTOR	1/16W 10K F
R215	VE-30012707	SMD RESISTOR	1/16W 680R J
R216	VE-30012707	SMD RESISTOR	1/16W 680R J
R217	VE-30012707	SMD RESISTOR	1/16W 680R J
R218	VE-30012707	SMD RESISTOR	1/16W 680R J
R403	VE-30012682	SMD RESISTOR	1/16W 30K J
R406	VE-30012691	SMD RESISTOR	1/16W 4.3K J
R409	VE-30012712	SMD RESISTOR	1/16W 8.2K J
R415	VE-30014420	SMD RESISTOR	1/16W 10K F
R417	VE-30012712	SMD RESISTOR	1/16W 8.2K J
R418	VE-30012698	SMD RESISTOR	1/16W 5.6K J
R422	VE-30012677	SMD RESISTOR	1/16W 3.3K J
R424	VE-30012657	SMD RESISTOR	1/16W 1K J
R429	VE-30000515	CF RESISTOR	1/4W 15R J
R430	VE-30012657	SMD RESISTOR	1/16W 1K J
R431	VE-30012657	SMD RESISTOR	1/16W 1K J
R436	VE-30012712	SMD RESISTOR	1/16W 8.2K J
R802	VE-30000718	CF RESISTOR	1/4W 4.7K J
R803	VE-30000593	SMD RESISTOR	1/10W 2.2K J
R804	VE-30000481	CF RESISTOR	1/4W 1M J
R805	VE-30000983	MF RESISTOR	1/4W 4.7K F
R806	VE-30000452	CF RESISTOR	1/4W 10R J
R807	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R808	VE-30012641	SMD RESISTOR	1/16W 10K J
R809	VE-30010205	MO RESISTOR	5W 39K J
R810	VE-30001159	MO RESISTOR	1W 0.33R J
⚠R812	VE-30001257	MG RESISTOR	1/2W 4.7M J
R813	VE-30000710	SMD RESISTOR	1/10W 47R J
R814	VE-30013199	SMD RESISTOR	1/10W 2.4K F
R815	VE-30012510	SMD RESISTOR	1/16W 100R J
R818	VE-30025723	SMD RESISTOR	1/10W 68K F
R819	VE-30012641	SMD RESISTOR	1/16W 10K J
R820	VE-30000526	CF RESISTOR	1/4W 1.5K J
R821	VE-30000526	CF RESISTOR	1/4W 1.5K J
R822	VE-30012641	SMD RESISTOR	1/16W 10K J
R823	VE-30000718	CF RESISTOR	1/4W 4.7K J
R824	VE-30000718	CF RESISTOR	1/4W 4.7K J
R825	VE-30012641	SMD RESISTOR	1/16W 10K J
R827	VE-30000469	SMD RESISTOR	1/10W 1K J
R828	VE-30001174	MO RESISTOR	2W 0.47R J
R829	VE-30000477	CF RESISTOR	1/4W 100K J
R830	VE-30000475	SMD RESISTOR	1/10W 10K J
R831	VE-30007026	SMD RESISTOR	1/10W 5.1K J
R832	VE-30000466	CF RESISTOR	1/4W 1K J
R833	VE-30001174	MO RESISTOR	2W 0.47R J
R834	VE-30000469	SMD RESISTOR	1/10W 1K J
R835	VE-30000475	SMD RESISTOR	1/10W 10K J
R836	VE-30000593	SMD RESISTOR	1/10W 2.2K J
R837	VE-30000503	SMD RESISTOR	1/10W 12K J
R838	VE-30000517	SMD RESISTOR	1/10W 15R J
R839	VE-30012641	SMD RESISTOR	1/16W 10K J
R840	VE-30012641	SMD RESISTOR	1/16W 10K J
R841	VE-30012657	SMD RESISTOR	1/16W 1K J
R842	VE-30012641	SMD RESISTOR	1/16W 10K J
R843	VE-30000466	CF RESISTOR	1/4W 1K J
R845	VE-30012695	SMD RESISTOR	1/16W 470R J
R847	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R848	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R849	VE-30012641	SMD RESISTOR	1/16W 10K J
⚠R850	VE-30000469	SMD RESISTOR	1/10W 1K J
R851	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R852	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R853	VE-30012641	SMD RESISTOR	1/16W 10K J
R854	VE-30012657	SMD RESISTOR	1/16W 1K J
R855	VE-30000933	MF RESISTOR	1/4W 2.4K F
R856	VE-30000913	MF RESISTOR	1/4W 2K J
R859	VE-30012657	SMD RESISTOR	1/16W 1K J
R860	VE-30000718	CF RESISTOR	1/4W 4.7K J
R861	VE-30012641	SMD RESISTOR	1/16W 10K J
R862	VE-30012641	SMD RESISTOR	1/16W 10K J
R863	VE-30012657	SMD RESISTOR	1/16W 1K J
R864	VE-30012695	SMD RESISTOR	1/16W 470R J
R866	VE-30000660	CF RESISTOR	1/4W 3.3K J
R867	VE-30012689	SMD RESISTOR	1/16W 39K J
R868	VE-30025723	SMD RESISTOR	1/10W 68K F
R922	VE-30012705	SMD RESISTOR	1/16W 6.8K J
R951	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R952	VE-30000459	CF RESISTOR	1/4W 100R J
R953	VE-30012510	SMD RESISTOR	1/16W 100R J
R954	VE-30000459	CF RESISTOR	1/4W 100R J

⚠Ref No.	Part No.	Part Name	Description Local
R955	VE-30012510	SMD RESISTOR	1/16W 100R J
R958	VE-30012698	SMD RESISTOR	1/16W 5.6K J
R960	VE-30012685	SMD RESISTOR	1/16W 33K J
R961	VE-30012705	SMD RESISTOR	1/16W 6.8K J
R962	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R963	VE-30012657	SMD RESISTOR	1/16W 1K J
R964	VE-30012510	SMD RESISTOR	1/16W 100R J
R965	VE-30012705	SMD RESISTOR	1/16W 6.8K J
R966	VE-30012644	SMD RESISTOR	1/16W 12K J
R967	VE-30012696	SMD RESISTOR	1/16W 47K J
R968	VE-30012684	SMD RESISTOR	1/16W 330R J
R970	VE-30010643	SMD RESISTOR	1/10W 39R J
R972	VE-30012669	SMD RESISTOR	1/16W 22K J
R973	VE-30012669	SMD RESISTOR	1/16W 22K J
R993	VE-30012695	SMD RESISTOR	1/16W 470R J
R994	VE-30012668	SMD RESISTOR	1/16W 220R J
R995	VE-30000459	CF RESISTOR	1/4W 100R J
R997	VE-30014022	SMD RESISTOR	1/16W 47R J
R998	VE-30000792	CF RESISTOR	1/4W 75R J
R1006	VE-30012714	SMD RESISTOR	1/16W 820R J
R1009	VE-30014022	SMD RESISTOR	1/16W 47R J
S408	VE-30012982	SMD RESISTOR	1/16W 10R J
S409	VE-30012982	SMD RESISTOR	1/16W 10R J
S802	VE-30012657	SMD RESISTOR	1/16W 1K J
VR801	VE-30001064	ADJ RESISTOR	1/10W 470R VER
L100	VE-30007771	FIXED COIL	100UH
L101	VE-30007757	COIL	
L103	VE-30020435	LINEARTY COIL	4.3UH
L104	VE-30007756	BRIDGE COIL	150UH
L109	VE-30001996	FIXED COIL	22UH
L413	VE-30019475	FIXED COIL	47UH
L414	VE-30019475	FIXED COIL	47UH
L419	VE-30001960	FERRITE CORE	
L420	VE-30001960	FERRITE CORE	
L803	VE-30001992	FIXED COIL	10UH
L804	VE-30011450	FIXED COIL	22UH
L809	VE-30018547	FIXED COIL	10UH
L811	VE-30018547	FIXED COIL	10UH
L951	VE-30001979	FIXED COIL	1UH
⚠TR100	VE-30006743	HORIZONTAL DRIVER TRANSF	
⚠TR101	VE-30017521	FB TRANSF	
⚠TR801	VE-30019205	SMPS TRANSF	
J130	VE-30006712	FERRITE BEAD	
L105	VE-30006712	FERRITE BEAD	
L106	VE-30006712	FERRITE BEAD	
L213	VE-30013413	FERRITE BEAD	
L214	VE-30013413	FERRITE BEAD	
L215	VE-30013413	FERRITE BEAD	
L216	VE-30013413	FERRITE BEAD	
L217	VE-30013413	FERRITE BEAD	
L218	VE-30013413	FERRITE BEAD	
L219	VE-30013413	FERRITE BEAD	
L220	VE-30013413	FERRITE BEAD	
L417	VE-30006712	FERRITE BEAD	
L418	VE-30006712	FERRITE BEAD	
L421	VE-30006712	FERRITE BEAD	
L422	VE-30006712	FERRITE BEAD	
L802	VE-30001971	FERRITE BEAD	
⚠L805	VE-30018078	LINE FILTER	
L999	VE-30013413	FERRITE SMD	
PL203	VE-30010921	DOUBLE-DECK SCART SOCKET	
⚠RL801	VE-30002183	RELAY	
⚠TH801	VE-30001270	PTC	9 OHM
⚠TU200	VE-30009637	TUNER WSP (PLL)	
X951	VE-30002851	XTAL	
Z950	VE-30001692	FILTER SAW	
Z951	VE-30012545	FILTER SAW	

FEATURE BOX P.W. BOARD ASS'Y (VE-20144446)

⚠Ref No.	Part No.	Part Name	Description Local
IC400	VE-30018263	IC	
IC600	VE-30016690	IC	
IC601	VE-30007739	IC	
IC602	VE-30020835	IC	
IC604	VE-30007739	IC	
IC750	VE-20157400	IC	(MEMORY)
IC751	VE-20173035	IC	(MICOM)
IC752	VE-30013571	IC	
Q400	VE-30001458	TRANSISTOR	
Q401	VE-30001457	TRANSISTOR	
Q402	VE-30001457	TRANSISTOR	
Q403	VE-30001457	TRANSISTOR	
Q404	VE-30001457	TRANSISTOR	
Q408	VE-30001457	TRANSISTOR	
Q410	VE-30001457	TRANSISTOR	
Q411	VE-30001458	TRANSISTOR	
Q412	VE-30001458	TRANSISTOR	
Q601	VE-30001458	TRANSISTOR	
Q602	VE-30001457	TRANSISTOR	
Q603	VE-30001458	TRANSISTOR	
Q604	VE-30001458	TRANSISTOR	
Q605	VE-30001457	TRANSISTOR	
Q606	VE-30001457	TRANSISTOR	
Q607	VE-30001457	TRANSISTOR	
Q608	VE-30001458	TRANSISTOR	
Q609	VE-30001458	TRANSISTOR	
Q610	VE-30001458	TRANSISTOR	
Q611	VE-30001457	TRANSISTOR	
Q750	VE-30001457	TRANSISTOR	
Q751	VE-30001457	TRANSISTOR	
Q752	VE-30001457	TRANSISTOR	
Q753	VE-30001457	TRANSISTOR	
Q754	VE-30001457	TRANSISTOR	
Q755	VE-30001457	TRANSISTOR	
Q756	VE-30001457	TRANSISTOR	
Q757	VE-30001457	TRANSISTOR	
Q758	VE-30001457	TRANSISTOR	
Q759	VE-30001457	TRANSISTOR	
Q760	VE-30001458	TRANSISTOR	
Q761	VE-30001457	TRANSISTOR	
Q762	VE-30001457	TRANSISTOR	
Q763	VE-30001457	TRANSISTOR	
Q764	VE-30001457	TRANSISTOR	
Q765	VE-30001457	TRANSISTOR	
Q766	VE-30001458	TRANSISTOR	
D400	VE-30007761	ZENER DIODE	
D401	VE-30001285	DIODE	
D402	VE-30001285	DIODE	
D403	VE-30001285	DIODE	
D600	VE-30001285	DIODE	
D601	VE-30001285	DIODE	
D602	VE-30001285	DIODE	
D603	VE-30001285	DIODE	
D604	VE-30001285	DIODE	
D605	VE-30001285	DIODE	
D606	VE-30001285	DIODE	
D607	VE-30001285	DIODE	
D750	VE-30001285	DIODE	
D751	VE-30020535	ZENER DIODE	
D752	VE-30003720	ZENER DIODE	
C400	VE-30016654	SMD CAPACITOR	100NF 16V K R
C402	VE-30000352	EL CAPACITOR	100UF 16V M
C404	VE-30012569	SMD CAPACITOR	33PF 50V J
C405	VE-30012569	SMD CAPACITOR	33PF 50V J
C406	VE-30000315	SMD CAPACITOR	220NF 25V Z
C407	VE-30000315	SMD CAPACITOR	220NF 25V Z
C408	VE-30000315	SMD CAPACITOR	220NF 25V Z
C409	VE-30000315	SMD CAPACITOR	220NF 25V Z
C410	VE-30012576	SMD CAPACITOR	56PF 50V J CH
C411	VE-30016654	SMD CAPACITOR	100NF 16V K R
C412	VE-30000393	EL CAPACITOR	3.3UF 50V M
C413	VE-30000345	EL CAPACITOR	10UF 50V M
C414	VE-30000345	EL CAPACITOR	10UF 50V M
C415	VE-30012581	SMD CAPACITOR	1NF 50V K R
C416	VE-30012581	SMD CAPACITOR	1NF 50V K R
C417	VE-30012565	SMD CAPACITOR	1.8PF 50V J CH
C418	VE-30012565	SMD CAPACITOR	1.8PF 50V J CH
C419	VE-30012581	SMD CAPACITOR	1NF 50V K R
C420	VE-30012581	SMD CAPACITOR	1NF 50V K R
C421	VE-30012581	SMD CAPACITOR	1NF 50V K R
C422	VE-30012576	SMD CAPACITOR	56PF 50V J CH
C423	VE-30016654	SMD CAPACITOR	100NF 16V K R

⚠Ref No.	Part No.	Part Name	Description Local
C424	VE-30016654	SMD CAPACITOR	100NF 16V K R
C425	VE-30012581	SMD CAPACITOR	1NF 50V K R
C436	VE-30000371	EL CAPACITOR	22UF 50V M
C437	VE-30000371	EL CAPACITOR	22UF 50V M
C438	VE-30000371	EL CAPACITOR	22UF 50V M
C439	VE-30000371	EL CAPACITOR	22UF 50V M
C440	VE-30012568	SMD CAPACITOR	270PF 50V J
C441	VE-30012572	SMD CAPACITOR	390PF 50V J
C444	VE-30012576	SMD CAPACITOR	56PF 50V J CH
C445	VE-30012581	SMD CAPACITOR	1NF 50V K R
C446	VE-30012581	SMD CAPACITOR	1NF 50V K R
C447	VE-30000345	EL CAPACITOR	10UF 50V M
C448	VE-30016654	SMD CAPACITOR	100NF 16V K R
C449	VE-30000345	EL CAPACITOR	10UF 50V M
C450	VE-30000315	SMD CAPACITOR	220NF 25V Z
C451	VE-30000315	SMD CAPACITOR	220NF 25V Z
C452	VE-30000315	SMD CAPACITOR	220NF 25V Z
C453	VE-30000315	SMD CAPACITOR	220NF 25V Z
C454	VE-30012581	SMD CAPACITOR	1NF 50V K R
C455	VE-30012581	SMD CAPACITOR	1NF 50V K R
C456	VE-30012581	SMD CAPACITOR	1NF 50V K R
C457	VE-30012581	SMD CAPACITOR	1NF 50V K R
C459	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C462	VE-30012581	SMD CAPACITOR	1NF 50V K R
C463	VE-30012581	SMD CAPACITOR	1NF 50V K R
C468	VE-30012581	SMD CAPACITOR	1NF 50V K R
C469	VE-30000444	CER CAPACITOR	470PF 1KV KB
C470	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C471	VE-30012589	SMD CAPACITOR	4.7NF 50V K
C479	VE-30016126	SMD CAPACITOR	220NF 16V K R
C485	VE-30000315	SMD CAPACITOR	220NF 25V Z
C486	VE-30000315	SMD CAPACITOR	220NF 25V Z
C487	VE-30000352	EL CAPACITOR	100UF 16V M
C488	VE-30000315	SMD CAPACITOR	220NF 25V Z
C489	VE-30000315	SMD CAPACITOR	220NF 25V Z
C490	VE-30000352	EL CAPACITOR	100UF 16V M
C600	VE-30012566	SMD CAPACITOR	22PF 50V J
C601	VE-30012566	SMD CAPACITOR	22PF 50V J
C602	VE-30012570	SMD CAPACITOR	330PF 50V J
C603	VE-30000315	SMD CAPACITOR	220NF 25V Z
C604	VE-30012570	SMD CAPACITOR	330PF 50V J
C605	VE-30000315	SMD CAPACITOR	220NF 25V Z
C606	VE-30012570	SMD CAPACITOR	330PF 50V J
C607	VE-30000315	SMD CAPACITOR	220NF 25V Z
C608	VE-30016654	SMD CAPACITOR	100NF 16V K R
C609	VE-30000362	EL CAPACITOR	1UF 50V M
C610	VE-30012608	SMD CAPACITOR	27PF 50V J CH
C611	VE-30012608	SMD CAPACITOR	27PF 50V J CH
C612	VE-30016654	SMD CAPACITOR	100NF 16V K R
C613	VE-30016654	SMD CAPACITOR	100NF 16V K R
C614	VE-30012559	SMD CAPACITOR	10PF 50V D COG
C615	VE-30016654	SMD CAPACITOR	100NF 16V K R
C616	VE-30012581	SMD CAPACITOR	1NF 50V K R
C617	VE-30012610	SMD CAPACITOR	10NF 50V J
C618	VE-30012610	SMD CAPACITOR	10NF 50V J
C619	VE-30012610	SMD CAPACITOR	10NF 50V J
C620	VE-30016654	SMD CAPACITOR	100NF 16V K R
C621	VE-30012610	SMD CAPACITOR	10NF 50V J
C622	VE-30012610	SMD CAPACITOR	10NF 50V J
C623	VE-30012610	SMD CAPACITOR	10NF 50V J
C624	VE-30000362	EL CAPACITOR	1UF 50V M
C625	VE-30000393	EL CAPACITOR	3.3UF 50V M
C626	VE-30000362	EL CAPACITOR	1UF 50V M
C627	VE-30016654	SMD CAPACITOR	100NF 16V K R
C628	VE-30000359	EL CAPACITOR	1000UF 16V M.
C629	VE-30012610	SMD CAPACITOR	10NF 50V J
C630	VE-30012580	SMD CAPACITOR	820PF 50V J
C631	VE-30000345	EL CAPACITOR	10UF 50V M
C632	VE-30012610	SMD CAPACITOR	10NF 50V J
C633	VE-30012580	SMD CAPACITOR	820PF 50V J
C634	VE-30012580	SMD CAPACITOR	820PF 50V J
C635	VE-30000315	SMD CAPACITOR	220NF 25V Z
C636	VE-30012581	SMD CAPACITOR	1NF 50V K R
C637	VE-30016654	SMD CAPACITOR	100NF 16V K R
C638	VE-30016654	SMD CAPACITOR	100NF 16V K R
C639	VE-30016654	SMD CAPACITOR	100NF 16V K R
C640	VE-30016654	SMD CAPACITOR	100NF 16V K R
C641	VE-30016654	SMD CAPACITOR	100NF 16V K R
C642	VE-30016654	SMD CAPACITOR	100NF 16V K R
C643	VE-30000345	EL CAPACITOR	10UF 50V M
C644	VE-30000345	EL CAPACITOR	10UF 50V M
C645	VE-30012610	SMD CAPACITOR	10NF 50V J
C646	VE-30012602	SMD CAPACITOR	10NF 25V K R
C647	VE-30012603	SMD CAPACITOR	100NF 25V K R
C648	VE-30012603	SMD CAPACITOR	100NF 25V K R
C649	VE-30000345	EL CAPACITOR	10UF 50V M
C650	VE-30012610	SMD CAPACITOR	10NF 50V J

⚠Ref No.	Part No.	Part Name	Description Local
C651	VE-30000345	EL CAPACITOR	10UF 50V M
C652	VE-30000345	EL CAPACITOR	10UF 50V M
C653	VE-30012610	SMD CAPACITOR	10NF 50V J
C654	VE-30016654	SMD CAPACITOR	100NF 16V K R
C655	VE-30016654	SMD CAPACITOR	100NF 16V K R
C658	VE-30000371	EL CAPACITOR	22UF 50V M
C659	VE-30016654	SMD CAPACITOR	100NF 16V K R
C660	VE-30016654	SMD CAPACITOR	100NF 16V K R
C661	VE-30000371	EL CAPACITOR	22UF 50V M
C662	VE-30016654	SMD CAPACITOR	100NF 16V K R
C663	VE-30012570	SMD CAPACITOR	330PF 50V J
C664	VE-30012570	SMD CAPACITOR	330PF 50V J
C665	VE-30012570	SMD CAPACITOR	330PF 50V J
C667	VE-30000315	SMD CAPACITOR	220NF 25V Z
C668	VE-30000315	SMD CAPACITOR	220NF 25V Z
C669	VE-30000315	SMD CAPACITOR	220NF 25V Z
C670	VE-30016654	SMD CAPACITOR	100NF 16V K R
C671	VE-30016654	SMD CAPACITOR	100NF 16V K R
C672	VE-30016654	SMD CAPACITOR	100NF 16V K R
C673	VE-30016654	SMD CAPACITOR	100NF 16V K R
C674	VE-30016654	SMD CAPACITOR	100NF 16V K R
C675	VE-30016654	SMD CAPACITOR	100NF 16V K R
C676	VE-30016654	SMD CAPACITOR	100NF 16V K R
C677	VE-30016654	SMD CAPACITOR	100NF 16V K R
C679	VE-30016654	SMD CAPACITOR	100NF 16V K R
C680	VE-30016654	SMD CAPACITOR	100NF 16V K R
C681	VE-30016654	SMD CAPACITOR	100NF 16V K R
C682	VE-30016654	SMD CAPACITOR	100NF 16V K R
C683	VE-30016654	SMD CAPACITOR	100NF 16V K R
C684	VE-30016654	SMD CAPACITOR	100NF 16V K R
C685	VE-30016654	SMD CAPACITOR	100NF 16V K R
C686	VE-30016654	SMD CAPACITOR	100NF 16V K R
C687	VE-30000345	EL CAPACITOR	10UF 50V M
C688	VE-30000345	EL CAPACITOR	10UF 50V M
C689	VE-30016654	SMD CAPACITOR	100NF 16V K R
C690	VE-30000345	EL CAPACITOR	10UF 50V M
C695	VE-30000345	EL CAPACITOR	10UF 50V M
C696	VE-30000345	EL CAPACITOR	10UF 50V M
C697	VE-30016654	SMD CAPACITOR	100NF 16V K R
C698	VE-30016654	SMD CAPACITOR	100NF 16V K R
C699	VE-30000345	EL CAPACITOR	10UF 50V M
C700	VE-30016654	SMD CAPACITOR	100NF 16V K R
C701	VE-30000352	EL CAPACITOR	100UF 16V M
C709	VE-30000256	SMD CAPACITOR	470PF 50V J
C710	VE-30016654	SMD CAPACITOR	100NF 16V K R
C711	VE-30012611	SMD CAPACITOR	120PF 50V J
C712	VE-30012568	SMD CAPACITOR	270PF 50V J
C713	VE-30012560	SMD CAPACITOR	100PF 50V J
C714	VE-30016654	SMD CAPACITOR	100NF 16V K R
C719	VE-30012560	SMD CAPACITOR	100PF 50V J
C750	VE-30000362	EL CAPACITOR	1UF 50V M
C751	VE-30000362	EL CAPACITOR	1UF 50V M
C752	VE-30000371	EL CAPACITOR	22UF 50V M
C753	VE-30016654	SMD CAPACITOR	100NF 16V K R
C754	VE-30000352	EL CAPACITOR	100UF 16V M
C755	VE-30000352	EL CAPACITOR	100UF 16V M
C756	VE-30016654	SMD CAPACITOR	100NF 16V K R
C757	VE-30000371	EL CAPACITOR	22UF 50V M
C758	VE-30016654	SMD CAPACITOR	100NF 16V K R
C759	VE-30016654	SMD CAPACITOR	100NF 16V K R
C760	VE-30000371	EL CAPACITOR	22UF 50V M
C761	VE-30016654	SMD CAPACITOR	100NF 16V K R
C762	VE-30000362	EL CAPACITOR	1UF 50V M
C763	VE-30016654	SMD CAPACITOR	100NF 16V K R
C764	VE-30016654	SMD CAPACITOR	100NF 16V K R
C765	VE-30016654	SMD CAPACITOR	100NF 16V K R
C766	VE-30012569	SMD CAPACITOR	33PF 50V J
C767	VE-30012569	SMD CAPACITOR	33PF 50V J
C768	VE-30000371	EL CAPACITOR	22UF 50V M
C769	VE-30016654	SMD CAPACITOR	100NF 16V K R
C770	VE-30016654	SMD CAPACITOR	100NF 16V K R
C771	VE-30016654	SMD CAPACITOR	100NF 16V K R
C772	VE-30016654	SMD CAPACITOR	100NF 16V K R
C773	VE-30016654	SMD CAPACITOR	100NF 16V K R
C774	VE-30016654	SMD CAPACITOR	100NF 16V K R
C775	VE-30012568	SMD CAPACITOR	270PF 50V J
C777	VE-30000345	EL CAPACITOR	10UF 50V M
C778	VE-30012580	SMD CAPACITOR	820PF 50V J
C779	VE-30016654	SMD CAPACITOR	100NF 16V K R
C781	VE-30016654	SMD CAPACITOR	100NF 16V K R
C782	VE-30000413	EL CAPACITOR	4.7UF 50V M
CXX1	VE-30000352	EL CAPACITOR	100UF 16V M
R400	VE-30012641	SMD RESISTOR	1/16W 10K J
R401	VE-30012641	SMD RESISTOR	1/16W 10K J
R402	VE-30012510	SMD RESISTOR	1/16W 100R J
R403	VE-30012510	SMD RESISTOR	1/16W 100R J
R404	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R405	VE-30012510	SMD RESISTOR	1/16W 100R J
R406	VE-30012510	SMD RESISTOR	1/16W 100R J
R407	VE-30012657	SMD RESISTOR	1/16W 1K J
R408	VE-30012657	SMD RESISTOR	1/16W 1K J
R409	VE-30012657	SMD RESISTOR	1/16W 1K J
R410	VE-30012657	SMD RESISTOR	1/16W 1K J
R417	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R418	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R419	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R420	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R421	VE-30012510	SMD RESISTOR	1/16W 100R J
R422	VE-30012510	SMD RESISTOR	1/16W 100R J
R431	VE-30012657	SMD RESISTOR	1/16W 1K J
R432	VE-30012657	SMD RESISTOR	1/16W 1K J
R433	VE-30012657	SMD RESISTOR	1/16W 1K J
R434	VE-30012657	SMD RESISTOR	1/16W 1K J
R435	VE-30012657	SMD RESISTOR	1/16W 1K J
R436	VE-30012657	SMD RESISTOR	1/16W 1K J
R437	VE-30012657	SMD RESISTOR	1/16W 1K J
R437	VE-30012657	SMD RESISTOR	1/16W 1K J
R438	VE-30012657	SMD RESISTOR	1/16W 1K J
R438	VE-30012657	SMD RESISTOR	1/16W 1K J
R439	VE-30012657	SMD RESISTOR	1/16W 1K J
R443	VE-30012657	SMD RESISTOR	1/16W 1K J
R447	VE-30012657	SMD RESISTOR	1/16W 1K J
R448	VE-30012669	SMD RESISTOR	1/16W 22K J
R449	VE-30012509	SMD RESISTOR	1/16W 100K J
R450	VE-30012657	SMD RESISTOR	1/16W 1K J
R451	VE-30014022	SMD RESISTOR	1/16W 47R J
R452	VE-30012669	SMD RESISTOR	1/16W 22K J
R453	VE-30012509	SMD RESISTOR	1/16W 100K J
R454	VE-30012657	SMD RESISTOR	1/16W 1K J
R455	VE-30014022	SMD RESISTOR	1/16W 47R J
R600	VE-30012713	SMD RESISTOR	1/16W 75R J
R601	VE-30012713	SMD RESISTOR	1/16W 75R J
R602	VE-30012713	SMD RESISTOR	1/16W 75R J
R603	VE-30012713	SMD RESISTOR	1/16W 75R J
R604	VE-30012713	SMD RESISTOR	1/16W 75R J
R605	VE-30012713	SMD RESISTOR	1/16W 75R J
R606	VE-30012713	SMD RESISTOR	1/16W 75R J
R607	VE-30012689	SMD RESISTOR	1/16W 39K J
R608	VE-30012684	SMD RESISTOR	1/16W 330R J
R609	VE-30012679	SMD RESISTOR	1/16W 3.9K J
R610	VE-30012677	SMD RESISTOR	1/16W 3.3K J
R611	VE-30012650	SMD RESISTOR	1/16W 15K J
R612	VE-30012650	SMD RESISTOR	1/16W 15K J
R613	VE-30012657	SMD RESISTOR	1/16W 1K J
R614	VE-30012657	SMD RESISTOR	1/16W 1K J
R618	VE-30020622	SARRAY RESISTOR	1/16W 100R J
R619	VE-30020622	SARRAY RESISTOR	1/16W 100R J
R625	VE-30012713	SMD RESISTOR	1/16W 75R J
R627	VE-30012510	SMD RESISTOR	1/16W 100R J
R628	VE-30012510	SMD RESISTOR	1/16W 100R J
R629	VE-30012668	SMD RESISTOR	1/16W 220R J
R630	VE-30012649	SMD RESISTOR	1/16W 150R J
R631	VE-30012673	SMD RESISTOR	1/16W 270R J
R632	VE-30014128	SMD RESISTOR	1/16W 33R J
R633	VE-30014078	SMD RESISTOR	1/16W 22R J
R634	VE-30012662	SMD RESISTOR	1/16W 2.7K J
R635	VE-30012649	SMD RESISTOR	1/16W 150R J
R636	VE-30012673	SMD RESISTOR	1/16W 270R J
R637	VE-30014128	SMD RESISTOR	1/16W 33R J
R638	VE-30012649	SMD RESISTOR	1/16W 150R J
R639	VE-30012673	SMD RESISTOR	1/16W 270R J
R640	VE-30014128	SMD RESISTOR	1/16W 33R J
R641	VE-30012649	SMD RESISTOR	1/16W 150R J
R642	VE-30012713	SMD RESISTOR	1/16W 75R J
R643	VE-30012669	SMD RESISTOR	1/16W 22K J
R644	VE-30012707	SMD RESISTOR	1/16W 680R J
R645	VE-30012510	SMD RESISTOR	1/16W 100R J
R646	VE-30012510	SMD RESISTOR	1/16W 100R J
R647	VE-30012713	SMD RESISTOR	1/16W 75R J
R648	VE-30012713	SMD RESISTOR	1/16W 75R J
R649	VE-30012713	SMD RESISTOR	1/16W 75R J
R650	VE-30012713	SMD RESISTOR	1/16W 75R J
R652	VE-30012713	SMD RESISTOR	1/16W 75R J
R653	VE-30012510	SMD RESISTOR	1/16W 100R J
R654	VE-30012668	SMD RESISTOR	1/16W 220R J
R655	VE-30012657	SMD RESISTOR	1/16W 1K J
R656	VE-30012657	SMD RESISTOR	1/16W 1K J
R657	VE-30012713	SMD RESISTOR	1/16W 75R J
R658	VE-30012669	SMD RESISTOR	1/16W 22K J
R659	VE-30012649	SMD RESISTOR	1/16W 150R J
R660	VE-30012641	SMD RESISTOR	1/16W 10K J
R661	VE-30012649	SMD RESISTOR	1/16W 150R J
R662	VE-30012695	SMD RESISTOR	1/16W 470R J

⚠Ref No.	Part No.	Part Name	Description Local
R663	VE-30012641	SMD RESISTOR	1/16W 10K J
R664	VE-30012649	SMD RESISTOR	1/16W 150R J
R665	VE-30012713	SMD RESISTOR	1/16W 75R J
R666	VE-30012669	SMD RESISTOR	1/16W 22K J
R667	VE-30012695	SMD RESISTOR	1/16W 470R J
R668	VE-30012650	SMD RESISTOR	1/16W 15K J
R670	VE-30012506	SMD RESISTOR	1/16W 1.5K J
R671	VE-30012719	SMD RESISTOR	1/16W 910R J
R673	VE-30012504	SMD RESISTOR	1/16W 1.2K J
R674	VE-30012713	SMD RESISTOR	1/16W 75R J
R675	VE-30012713	SMD RESISTOR	1/16W 75R J
R677	VE-30012713	SMD RESISTOR	1/16W 75R J
R678	VE-30012713	SMD RESISTOR	1/16W 75R J
R679	VE-30012713	SMD RESISTOR	1/16W 75R J
R680	VE-30012713	SMD RESISTOR	1/16W 75R J
R682	VE-30012713	SMD RESISTOR	1/16W 75R J
R683	VE-30012713	SMD RESISTOR	1/16W 75R J
R699	VE-30012688	SMD RESISTOR	1/16W 390R J
R700	VE-30012657	SMD RESISTOR	1/16W 1K J
R703	VE-30012713	SMD RESISTOR	1/16W 75R J
R704	VE-30012649	SMD RESISTOR	1/16W 150R J
R705	VE-30012695	SMD RESISTOR	1/16W 470R J
R706	VE-30012669	SMD RESISTOR	1/16W 22K J
R707	VE-30012649	SMD RESISTOR	1/16W 150R J
R708	VE-30012641	SMD RESISTOR	1/16W 10K J
R750	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R751	VE-30012695	SMD RESISTOR	1/16W 470R J
R752	VE-30012695	SMD RESISTOR	1/16W 470R J
R753	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R754	VE-30013001	SMD RESISTOR	1/16W 1K F
R755	VE-30012657	SMD RESISTOR	1/16W 1K J
R756	VE-30012669	SMD RESISTOR	1/16W 22K J
R757	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R758	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R759	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R760	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R761	VE-30012679	SMD RESISTOR	1/16W 3.9K J
R762	VE-30012679	SMD RESISTOR	1/16W 3.9K J
R763	VE-30012650	SMD RESISTOR	1/16W 15K J
R764	VE-30012650	SMD RESISTOR	1/16W 15K J
R765	VE-30012510	SMD RESISTOR	1/16W 100R J
R766	VE-30012641	SMD RESISTOR	1/16W 10K J
R767	VE-30012510	SMD RESISTOR	1/16W 100R J
R768	VE-30012641	SMD RESISTOR	1/16W 10K J
R773	VE-30012657	SMD RESISTOR	1/16W 1K J
R774	VE-30012657	SMD RESISTOR	1/16W 1K J
R775	VE-30012696	SMD RESISTOR	1/16W 47K J
R776	VE-30012696	SMD RESISTOR	1/16W 47K J
R777	VE-30012696	SMD RESISTOR	1/16W 47K J
R778	VE-30012696	SMD RESISTOR	1/16W 47K J
R779	VE-30012510	SMD RESISTOR	1/16W 100R J
R780	VE-30012510	SMD RESISTOR	1/16W 100R J
R781	VE-30012641	SMD RESISTOR	1/16W 10K J
R782	VE-30012641	SMD RESISTOR	1/16W 10K J
R783	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R784	VE-30012641	SMD RESISTOR	1/16W 10K J
R785	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R786	VE-30012509	SMD RESISTOR	1/16W 100K J
R789	VE-30012657	SMD RESISTOR	1/16W 1K J
R790	VE-30012657	SMD RESISTOR	1/16W 1K J
R791	VE-30012657	SMD RESISTOR	1/16W 1K J
R792	VE-30012657	SMD RESISTOR	1/16W 1K J
R793	VE-30012657	SMD RESISTOR	1/16W 1K J
R794	VE-30014022	SMD RESISTOR	1/16W 47R J
R795	VE-30012668	SMD RESISTOR	1/16W 220R J
R796	VE-30014022	SMD RESISTOR	1/16W 47R J
R797	VE-30012657	SMD RESISTOR	1/16W 1K J
R798	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R801	VE-30012641	SMD RESISTOR	1/16W 10K J
R806	VE-30012657	SMD RESISTOR	1/16W 1K J
R807	VE-30018409	SARRAY RESISTOR	1/16W 330R J
R808	VE-30018409	SARRAY RESISTOR	1/16W 330R J
R809	VE-30018409	SARRAY RESISTOR	1/16W 330R J
R810	VE-30018409	SARRAY RESISTOR	1/16W 330R J
R811	VE-30018409	SARRAY RESISTOR	1/16W 330R J
R812	VE-30018409	SARRAY RESISTOR	1/16W 330R J
R813	VE-30018409	SARRAY RESISTOR	1/16W 330R J
R814	VE-30012641	SMD RESISTOR	1/16W 10K J
R815	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R816	VE-30012657	SMD RESISTOR	1/16W 1K J
R817	VE-30012650	SMD RESISTOR	1/16W 15K J
R818	VE-30012679	SMD RESISTOR	1/16W 3.9K J
R819	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R820	VE-30012641	SMD RESISTOR	1/16W 10K J
R822	VE-30012641	SMD RESISTOR	1/16W 10K J
R823	VE-30012696	SMD RESISTOR	1/16W 47K J
R824	VE-30012696	SMD RESISTOR	1/16W 47K J
R825	VE-30012510	SMD RESISTOR	1/16W 100R J
R826	VE-30012641	SMD RESISTOR	1/16W 10K J
R827	VE-30012692	SMD RESISTOR	1/16W 4.7K J
R828	VE-30012659	SMD RESISTOR	1/16W 2.2K J
R829	VE-30012641	SMD RESISTOR	1/16W 10K J
R830	VE-30012641	SMD RESISTOR	1/16W 10K J
R831	VE-30012510	SMD RESISTOR	1/16W 100R J
R832	VE-30012641	SMD RESISTOR	1/16W 10K J
R833	VE-30012510	SMD RESISTOR	1/16W 100R J
R834	VE-30012641	SMD RESISTOR	1/16W 10K J
R835	VE-30012641	SMD RESISTOR	1/16W 10K J
L402	VE-30017143	SMD COIL	22UH
L403	VE-30017143	SMD COIL	22UH
L404	VE-30017143	SMD COIL	22UH
L405	VE-30017143	SMD COIL	22UH
L407	VE-30017143	FIXED COIL	22UH
L408	VE-30017143	FIXED COIL	22UH
L412	VE-30017143	SMD COIL	22UH
L413	VE-30017143	SMD COIL	22UH
L414	VE-30017143	SMD COIL	22UH
L415	VE-30017143	SMD COIL	22UH
L416	VE-30017143	SMD COIL	22UH
L417	VE-30017143	SMD COIL	22UH
L425	VE-30018093	SMD COIL	3.3uH
L426	VE-30018093	SMD COIL	3.3uH
L427	VE-30018093	SMD COIL	3.3uH
L600	VE-30001992	FIXED COIL	10UH
L601	VE-30018093	SMD COIL	3.3uH
L602	VE-30018093	SMD COIL	3.3uH
L603	VE-30018093	SMD COIL	3.3uH
L605	VE-30001992	FIXED COIL	10UH
L606	VE-30001992	FIXED COIL	10UH
L607	VE-30001992	FIXED COIL	10UH
L608	VE-30001992	FIXED COIL	10UH
L609	VE-30018093	SMD COIL	3.3uH
L610	VE-30018093	SMD COIL	3.3uH
L611	VE-30018093	SMD COIL	3.3uH
L612	VE-30017542	SMD COIL	10UH
L613	VE-30001992	FIXED COIL	10UH
L614	VE-30001992	FIXED COIL	10UH
L619	VE-30017542	SMD COIL	10UH
L750	VE-30018093	SMD COIL	3.3uH
L751	VE-30018093	SMD COIL	3.3uH
L752	VE-30018093	SMD COIL	3.3uH
L753	VE-30018093	SMD COIL	3.3uH
L754	VE-30018093	SMD COIL	3.3uH
L756	VE-30018093	SMD COIL	3.3uH
L406	VE-30001971	FERRITE SMD	
L411	VE-30001971	FERRITE SMD	
L418	VE-30001971	FERRITE SMD	
L618	VE-30001969	FERRITE SMD	
X400	VE-30001756	XTAL	
X600	VE-30008782	XTAL	
X750	VE-30006662	XTAL	
XTAL600	VE-30008778	XTAL	

CRT SOCKET P.W. BOARD ASS'Y (VE-20147459)

⚠Ref No.	Part No.	Part Name	Description Local
IC900	VE-30018768	IC	
Q900	VE-30001427	TRANSISTOR	
Q901	VE-30001455	TRANSISTOR	
Q906	VE-30001454	TRANSISTOR	
D901	VE-30006918	DIODE	
D902	VE-30001318	DIODE	
D903	VE-30006918	DIODE	
D904	VE-30006918	DIODE	
D905	VE-30001284	DIODE	
L902	VE-30001284	DIODE	
C900	VE-30000126	MKP CAPACITOR	1NF 630V J
C902	VE-30000415	EL CAPACITOR	4.7UF 250V M
C903	VE-30006841	MKP CAPACITOR	1.2NF 1600V J
C904	VE-30000330	CER CAPACITOR	4.7NF 50V K B
C905	VE-30000350	EL CAPACITOR	10UF 250V M
C906	VE-30000075	MKT CAPACITOR	100NF 250V K (DC)
C917	VE-30000295	CER CAPACITOR	100NF 50V Z F
C918	VE-30000352	EL CAPACITOR	100UF 16V M
C919	VE-30000205	CER CAPACITOR	150PF 50V J SL
C931	VE-30000075	MKT CAPACITOR	100NF 250V K (DC)
C935	VE-30000197	CER CAPACITOR	120PF 50V J SL
R900	VE-30000788	CF RESISTOR	1/4W 6.8M J
R901	VE-30000459	CF RESISTOR	1/4W 100R J
R902	VE-30000459	CF RESISTOR	1/4W 100R J
R903	VE-30000459	CF RESISTOR	1/4W 100R J
R904	VE-30000535	CF RESISTOR	1/2W 150K J
R905	VE-30000477	CF RESISTOR	1/4W 100K J
R906	VE-30000477	CF RESISTOR	1/4W 100K J
R907	VE-30020603	CC RESISTOR	1W 1K K
R908	VE-30020603	CC RESISTOR	1W 1K K
R909	VE-30000477	CF RESISTOR	1/4W 100K J
R910	VE-30020603	CC RESISTOR	1W 1K K
R911	VE-30000466	CF RESISTOR	1/4W 1K J
R912	VE-30000459	CF RESISTOR	1/4W 100R J
R913	VE-30000492	CF RESISTOR	1/4W 120R J
R914	VE-30000612	CF RESISTOR	1/4W 2.4K J
R915	VE-30000973	MF RESISTOR	1/4W 3.9K F
⚠R932	VE-30001245	FUSE RESISTOR	1/4W 0.47R J
R933	VE-30021483	CC RESISTOR	1W 2.2K K
R934	VE-30000459	CF RESISTOR	1/4W 100R J
R942	VE-30000628	CF RESISTOR	1/4W 2.7K J
⚠J136	VE-30001248	FUSE RESISTOR	1/4W 4.7R J
L901	VE-30001994	FIXED COIL	22UH
L905	VE-30001990	FIXED COIL	6.8UH
⚠PL900	VE-30001855	CRT SOCKET	
SG901	VE-30000428	SPARK GAP	300V
SG902	VE-30000428	SPARK GAP	300V
SG903	VE-30000428	SPARK GAP	300V
SG904	VE-30000428	SPARK GAP	300V
SG905	VE-30021532	SPARK GAP	1500V

AV & HEADPHONE P.W. BOARD ASS'Y (VE-20161117)

⚠Ref No.	Part No.	Part Name	Description Local
D1	VE-30001371	ZENER DIODE	
D2	VE-30001371	ZENER DIODE	
D3	VE-30001371	ZENER DIODE	
D4	VE-30001371	ZENER DIODE	
D5	VE-30001371	ZENER DIODE	
C101	VE-30000190	CER CAPACITOR	100PF 50V J CH
C103	VE-30000190	CER CAPACITOR	100PF 50V J CH
C104	VE-30000190	CER CAPACITOR	100PF 50V J CH
C105	VE-30000330	CER CAPACITOR	4.7NF 50V K B
C106	VE-30000330	CER CAPACITOR	4.7NF 50V K B
C107	VE-30000433	CER CAPACITOR	1NF 1KV M B
C108	VE-30000433	CER CAPACITOR	1NF 1KV M B
R100	VE-30000518	CF RESISTOR	1/2W 150R J
R101	VE-30000518	CF RESISTOR	1/2W 150R J
R102	VE-30000594	CF RESISTOR	1/4W 22K J
R103	VE-30000712	CF RESISTOR	1/4W 470R J
R104	VE-30000594	CF RESISTOR	1/4W 22K J
R106	VE-30000712	CF RESISTOR	1/4W 470R J
R107	VE-30000551	CF RESISTOR	1/4W 18R J
R108	VE-30000551	CF RESISTOR	1/4W 18R J
L101	VE-30001979	FIXED COIL	1UH
JK104	VE-30001900	HEADPHONE JACK	
JK109	VE-30015102	RCA JACK	YELLOW
JK110	VE-30015060	RCA JACK	WHITE
JK111	VE-30015101	RCA JACK	RED

POWER SWITCH P.W. BOARD ASS'Y (VE-20122229)

⚠Ref No.	Part No.	Part Name	Description Local
⚠F801	VE-30001731	FUSE	2.5A 250V
⚠SW800	VE-30022450	SWITCH (ON/OFF)	

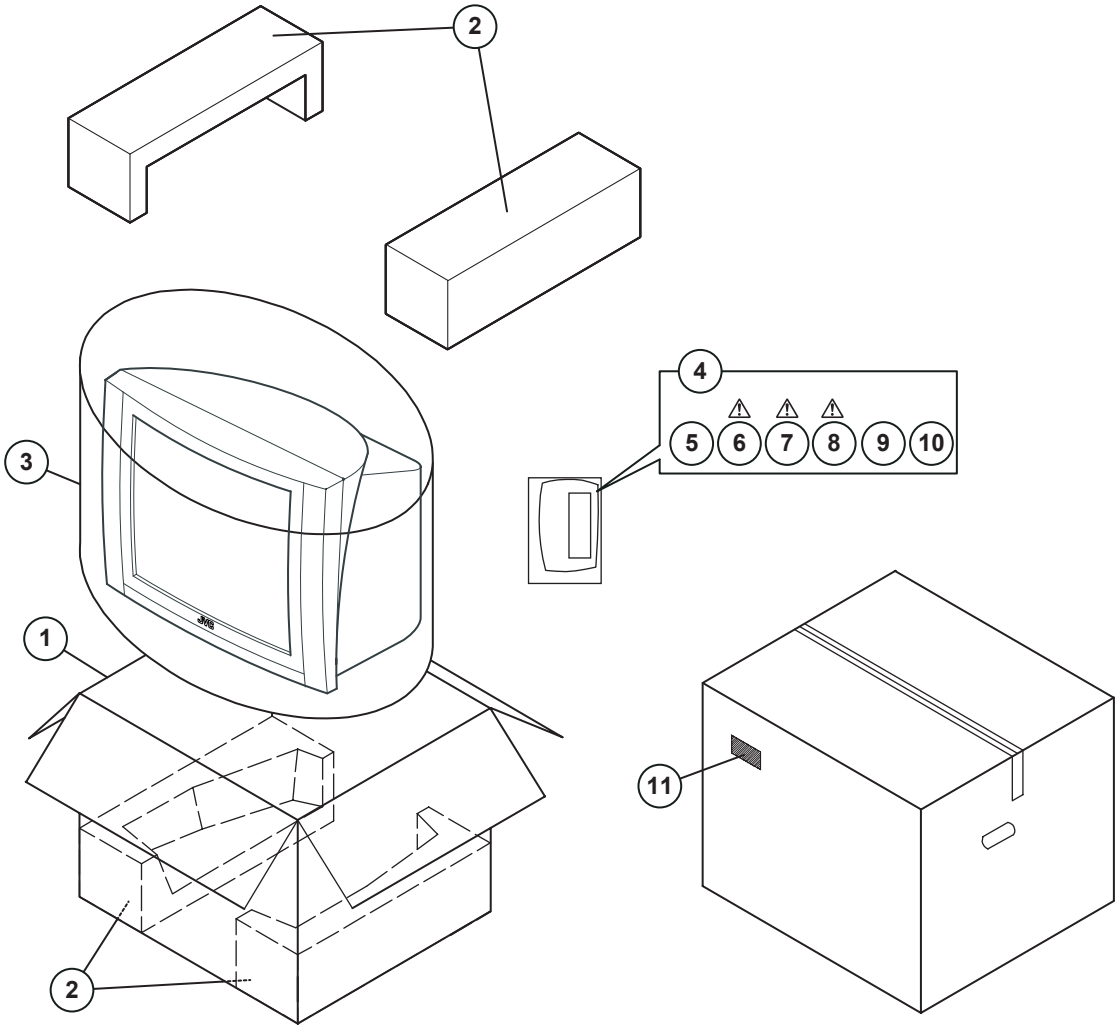
FRONT CONTROL P.W. BOARD ASS'Y (VE-20167596)

⚠Ref No.	Part No.	Part Name	Description Local
R1	VE-30000689	CF RESISTOR	1/4W 3.9K J
R2	VE-30000526	CF RESISTOR	1/4W 1.5K J
R3	VE-30000770	CF RESISTOR	1/4W 680R J
R4	VE-30000712	CF RESISTOR	1/4W 470R J
R5	VE-30000622	CF RESISTOR	1/4W 270R J
SW1	VE-30002181	SWITCH TACT	
SW2	VE-30002181	SWITCH TACT	
SW3	VE-30002181	SWITCH TACT	
SW4	VE-30002181	SWITCH TACT	
SW5	VE-30002181	SWITCH TACT	

LED P.W. BOARD ASS'Y (VE-20154915)

⚠Ref No.	Part No.	Part Name	Description Local
IC1	VE-30001670	PREAMPLIFIER	
D1	VE-30001279	LED RED/GREEN	
D1	VE-20119034	LED HOLDER	
C1	VE-30000371	CAP EL	22UF 50V M

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	VE-50051238	CARTON BOX		AV-28RH4BU
	1	VE-50051256	CARTON BOX		AV-28RH4SU
	2	VE-20155898	SNOW BOX ASSY	4pcs in 1set	
	3	VE-50042308	PLOY BAG (1200x 1050)		
	4	VE-70000587	POLY BAG		
	5	VE-30017763	REMOTE CONTROL UNIT	RM-C1100	
⚠	6	VE-50051235	INST BOOK	[ENG/GER/FRE/ITA/SPA/DUT/POR]	AV-28RH4BU
⚠	6	VE-50051243	INST BOOK	[ENG/GER/FRE/ITA/SPA/DUT/POR]	AV-28RH4SU
⚠	7	VE-50051236	INST BOOK	[SWE / NOR / DAN /FIN]	AV-28RH4BU
⚠	7	VE-50051254	INST BOOK	[SWE / NOR / DAN /FIN]	AV-28RH4SU
⚠	8	VE-50051237	INST BOOK	[CZE / POL / HUN / BUL / ROM]	AV-28RH4BU
⚠	8	VE-50051255	INST BOOK	[CZE / POL / HUN / BUL / ROM]	AV-28RH4SU
	9	---------	WARRANTY CARD	BT-54013-2TK	
	10	---------	BATTERY	(x2) AA/R06	
	11	VE-20160975	LABEL		AV-28RH4BU
	11	VE-20160981	LABEL		AV-28RH4SU